

NAVAL TECHNICAL TRAINING COMMAND

STUDENTS GUIDE

for

EA-6B I-CAP COMMUNICATIONS, NAVIGATION
AND APS-130 RADAR
ORGANIZATIONAL MAINTENANCE COURSE

SECTION I (INFORMATION SHEETS)

SECTION IV (DIAGRAMS)

C-102-3986



CNTT N4420D

NAVAL AIR MAINTENANCE TRAINING GROUP

For Training Purposes Only

NAVAL AIR MAINTENANCE TRAINING GROUP
STUDENT GUIDE
FOR
EA-6B I-CAP COMMUNICATIONS, NAVIGATION AND APS-130 RADAR
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SECTION I (INFORMATION SHEETS)

DATE: Se

(FOR TRAININ

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EA-6B (ICAP) INTEGRATED NAVIGATION SYSTEM
MAINTENANCE ANALYST

INFORMATION SHEET 4.4.1-IS-1

DATE: September 1982

TITLE: DIRECT VIEW STORAGE TUBE (DVST) OPERATION

1. Components

a. DVST has five components

- (1) Writing gun
- (2) Deflection system
- (3) Flooding gun
- (4) Collimating system
- (5) Storage display system

b. Writing gun is comparable to the electron gun in a conventional CRT

- (1) Target is a storage display system instead of a viewing screen
- (2) Storage display system is charged by the video information contained in the write gun beam

c. Deflection system is a conventional magnetic deflection system

d. Flooding gun provides a continuous low energy beam

- (1) Collimating system ensures beam approaches the storage display system perpendicularly and with uniform density
- (2) Flood beam allowed to pass the storage display system on to the viewing screen and is proportional to the change on each storage element. The display pattern becomes a visual reproduction of the stored electric charge pattern

- (2) Electrode makes all electrons strike the storage surface at 90°

Storage display system consists of:

- (1) Storage surface: special phosphor on which information written by the electron beam
- (2) Collector electrode:
 - (1) Fine metallic mesh to collect electrons in flooding beam
 - (2) Provides a return path for secondary electrons
- (3) Backing electrode: mesh behind the storage surface which the storage surface is coated with phosphor
- (4) Aluminized viewing screen to give a bluish-green color

- d. Charge pattern on the storage surface controls the flood beam electrons that pass into the viewing screen field.
 - (1) The display pattern is a visual reproduction of the stored electric charge pattern.
 - (2) Control of the persistence is effected by the duration and frequency of the erase pulses to the backing electrode

3. Development of Operating Voltage

a. Viewing screen voltage

- (1) Generated by the High Voltage Power Supply (HVPS)
- (2) +10K VDC output is connected to the DVST viewing screen

b. Write gun is referenced to -2K VDC

- (1) Voltage is developed in the HVPS and routed to the High Voltage Coupler Assembly

c. Write gun control grid

- (1) A 5 KHz sine wave is generated by an oscillator in Sweep Loss Protect A2
 - (a) Amplitude of the sine wave is controlled by the PHD BRT Control on the DISPLAYS Control Panel
 - (b) Amplified sine wave is routed to a 5 KHz bias transformer rectifier in the High Voltage Coupler Assembly
- (2) 5 KHz bias transformer rectifier
 - (a) Transformer is a step-up device clamped to -2K VDC
 - (b) Rectifier is a voltage from -2K VDC to -1.8K of the 5 KHz input
- (3) Video from the Video Amplifier added to output from the grid G1

d. Write gun cathode

- (1) -2K VDC is reduced to approximately -1.8K VDC in the High Voltage Coupler Assembly and provided to the cathode/filament line as a baseline DVST cut-off
- (2) Composite intensity gate from the Intensity Gate Amplifier A3 is:
 - (a) Routed to the High Voltage Coupler Assembly
 - (b) Clamped to the baseline level
- (3) Clamped intensity gate is routed to the DVST cathode
 - (a) Negative pulses applied to the cathode decrease the negative grid-to-cathode voltage
 - (b) Decreased negative grid-to-cathode voltage permits electron flow and unblanks the DVST

NOTE: A DVST cut-off condition exists if either the PHD BRT control is at minimum or there is no intensity gate

e. Write gun filaments

- (1) 115V, 400 Hz, phase A is provided to a filament transformer in the High Voltage Coupler
- (2) 6.3 VAC secondary voltage is
 - (a) Clamped to the cathode potential to prevent arcing
 - (b) Routed to the DVST filaments

f. Write gun focus grid

- (1) -2K VDC within the High Voltage Coupler Assembly is routed to a zener diode/resistor voltage divider
- (2) DC level values between approximately -1.4 and 1.7K VDC are:
 - (a) Available with a focus potentiometer in the divider network
 - (b) Routed to the DVST focus grid

- g. Flood gun filaments are provided with 6.3 VDC from the 6.3 VDC Power Supply A12
- h. Flood gun cathode is wired to ground potential in Sweep Loss Protect Assembly A2
- i. Flood gun control grid is provided with an adjustable -30 VDC to 0 VDC from the Sweep Loss Protector Assembly A2
- j. Flood gun collimating grid is provided with filtered 120 VDC from the Sweep Loss Protector A2

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SECTION IV (DIAGRAMS)

DATE: September 1982

(FOR TRAINING PURPOSES ONLY)

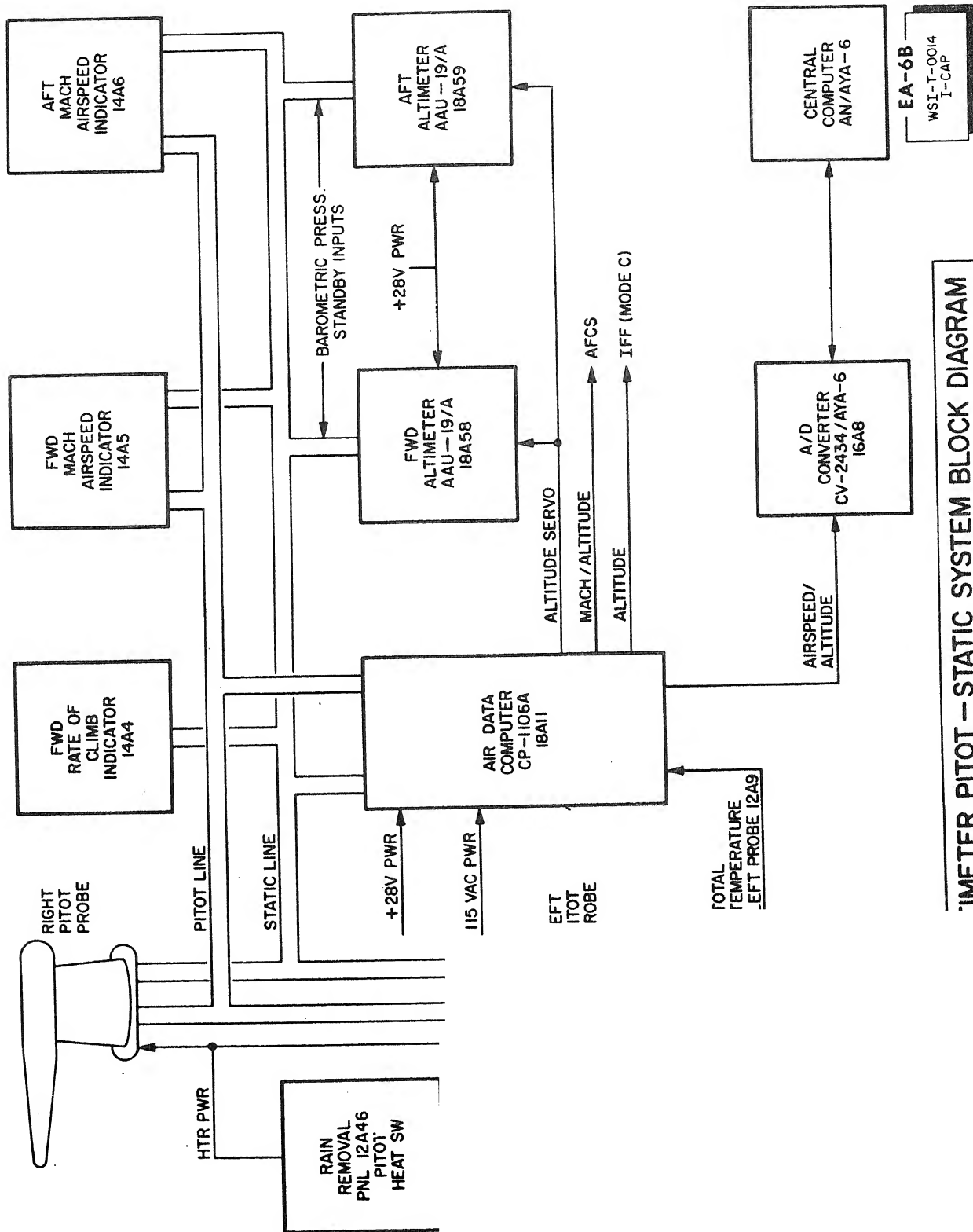
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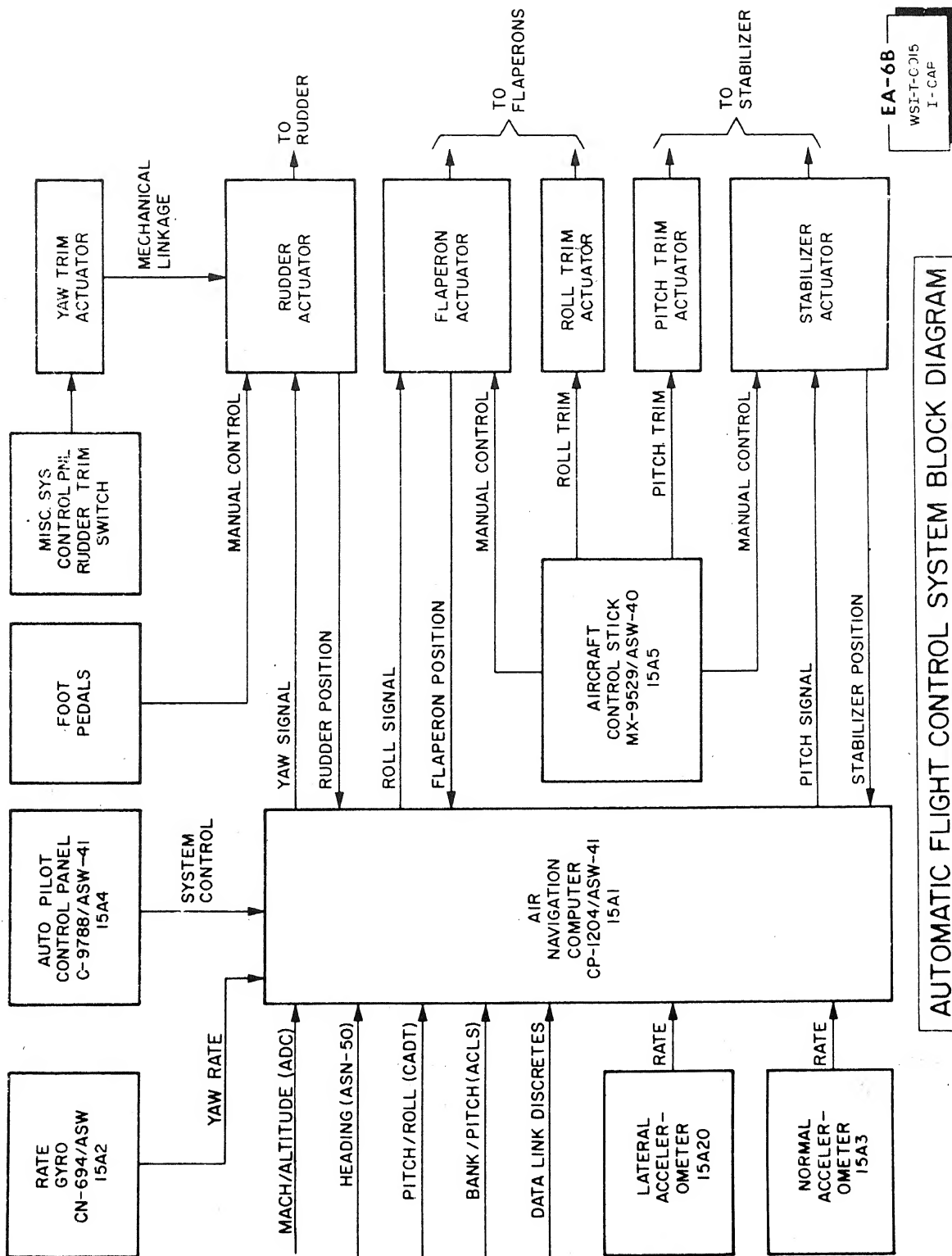
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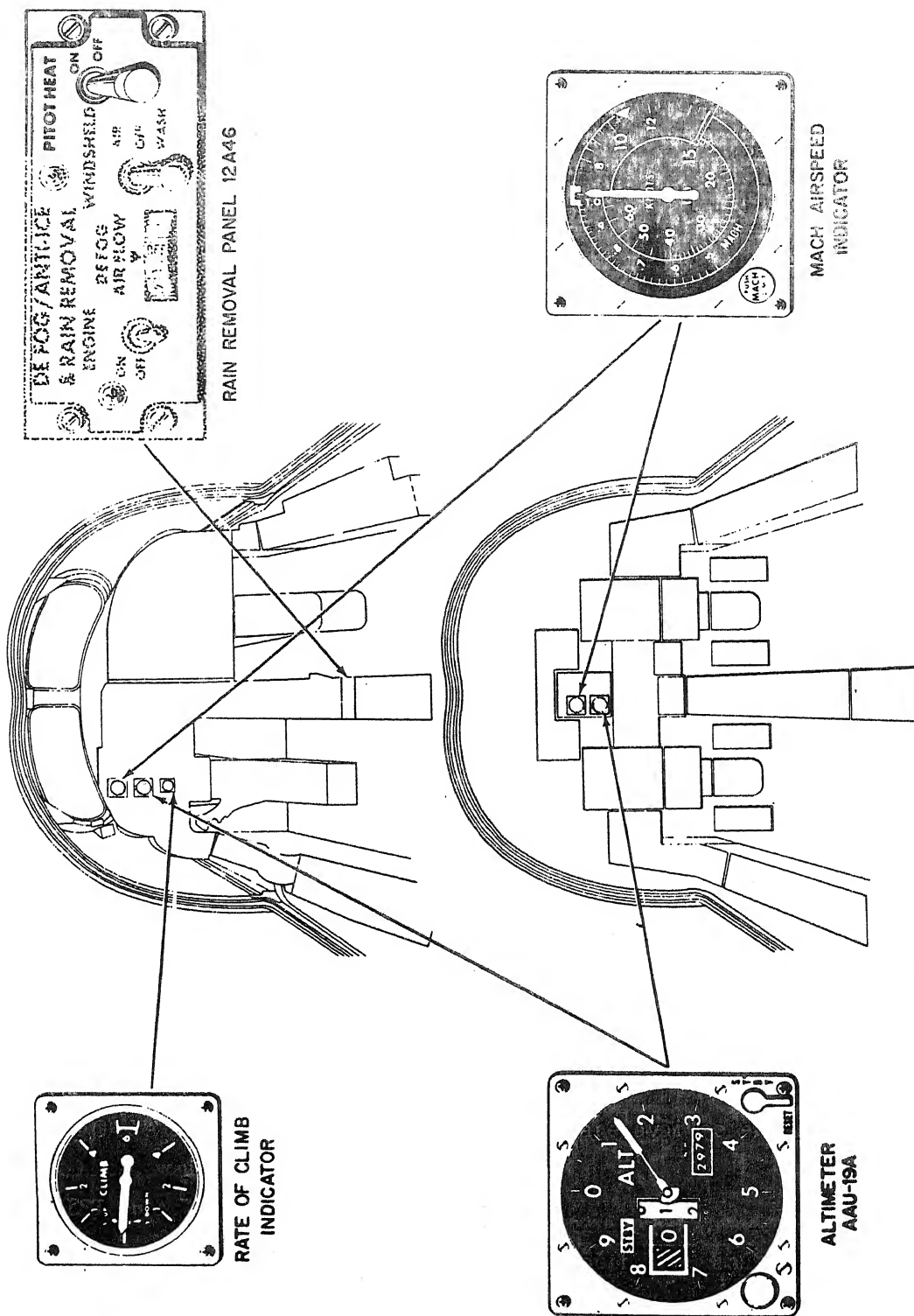
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PILOT PITOT - STATIC SYSTEM BLOCK DIAGRAM

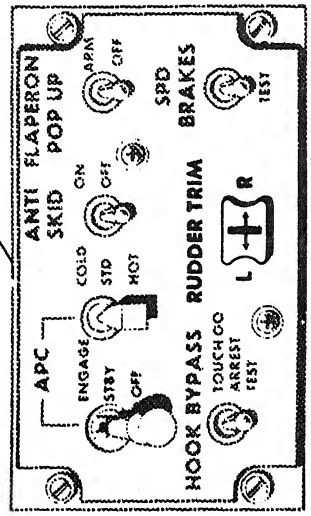
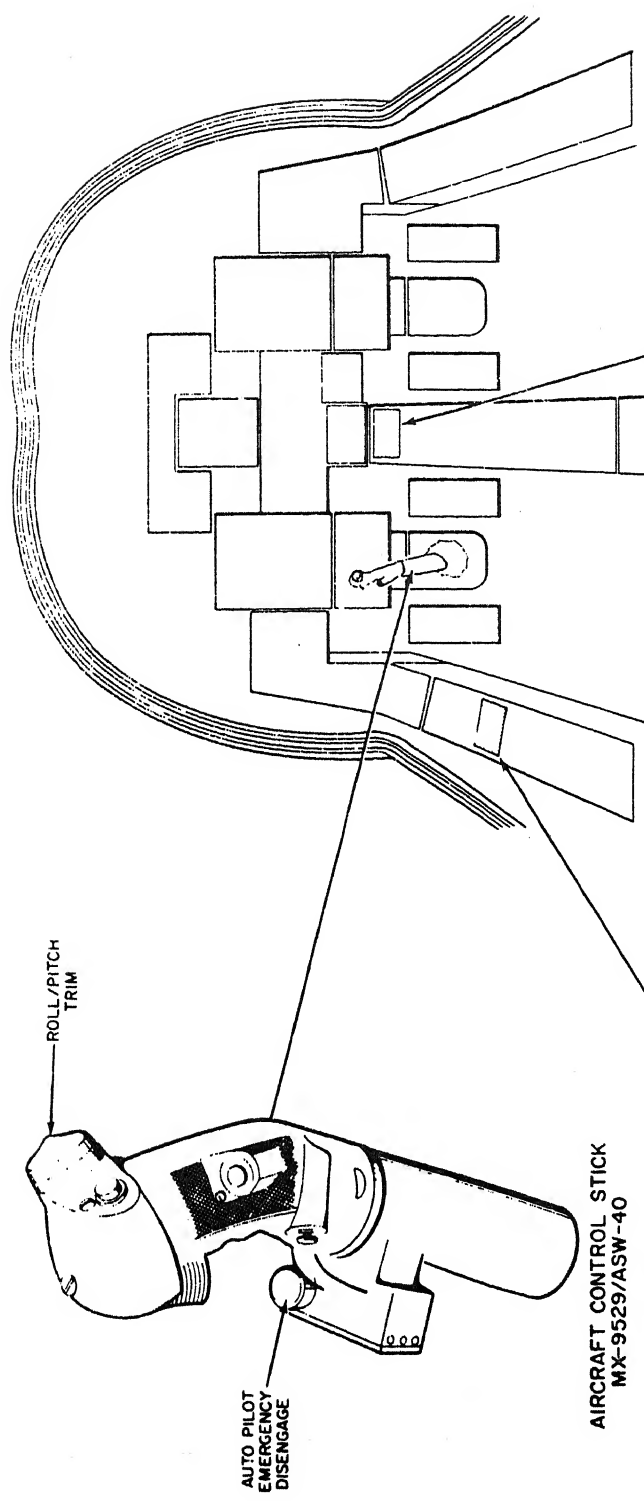


AUTOMATIC FLIGHT CONTROL SYSTEM BLOCK DIAGRAM

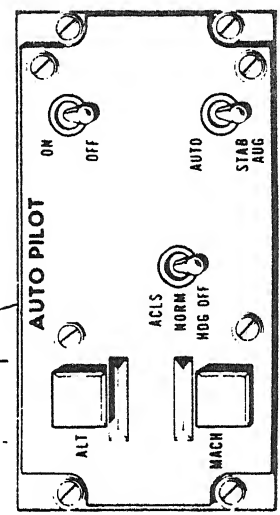


**AIRSPEED / ALTIMETER PITOT-STATIC SYSTEM
DISPLAYS AND CONTROLS**

EA-65
WSI-T-0015
T-CAP



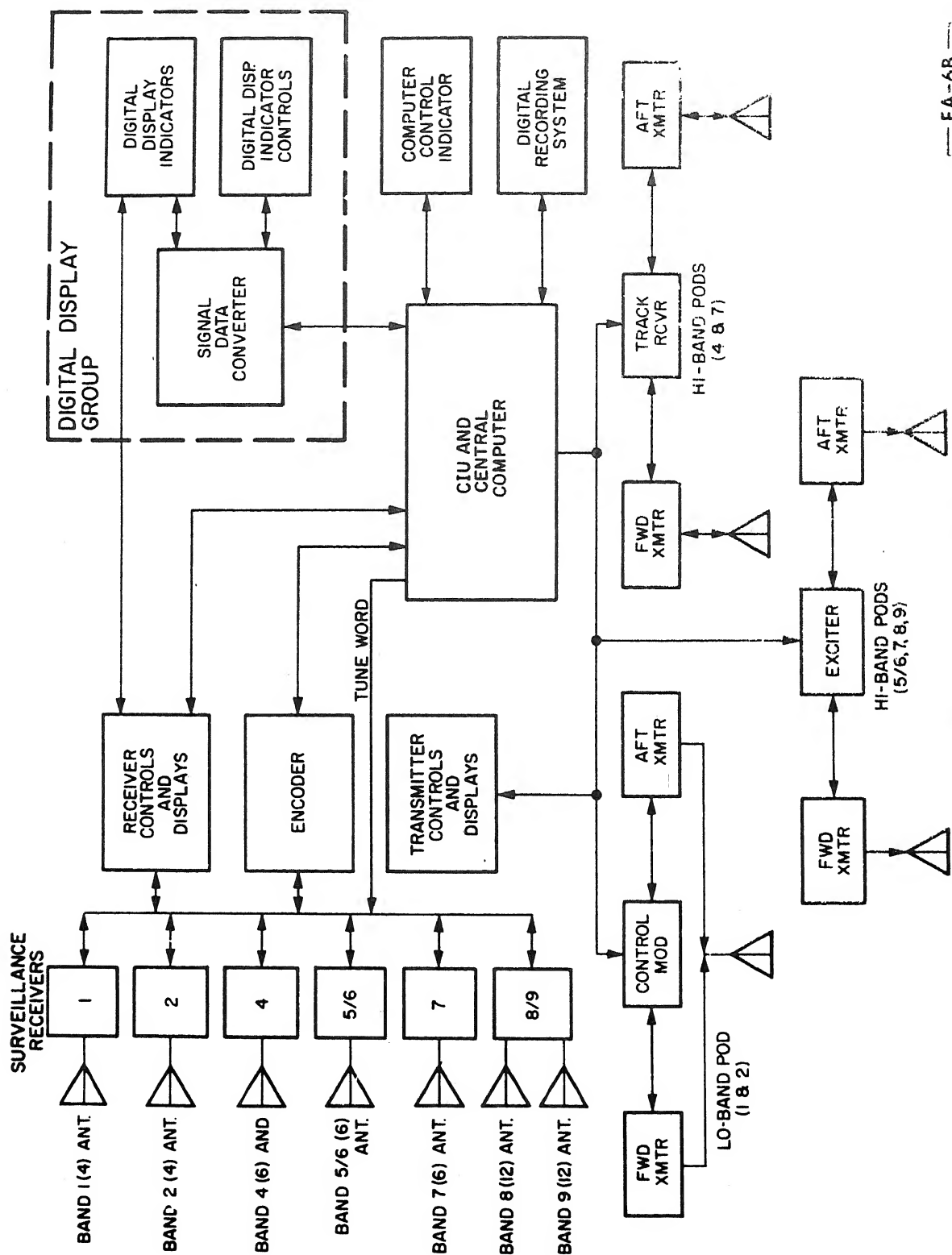
MISC SYSTEM CONTROL PANEL
IBA30



AUTO PILOT CONTROL PANEL
C-9788/ASW-41

EA-6B
WSI-T-0020
I-CAP

AUTOMATIC FLIGHT CONTROL SYSTEM DISPLAY AND CONTROLS

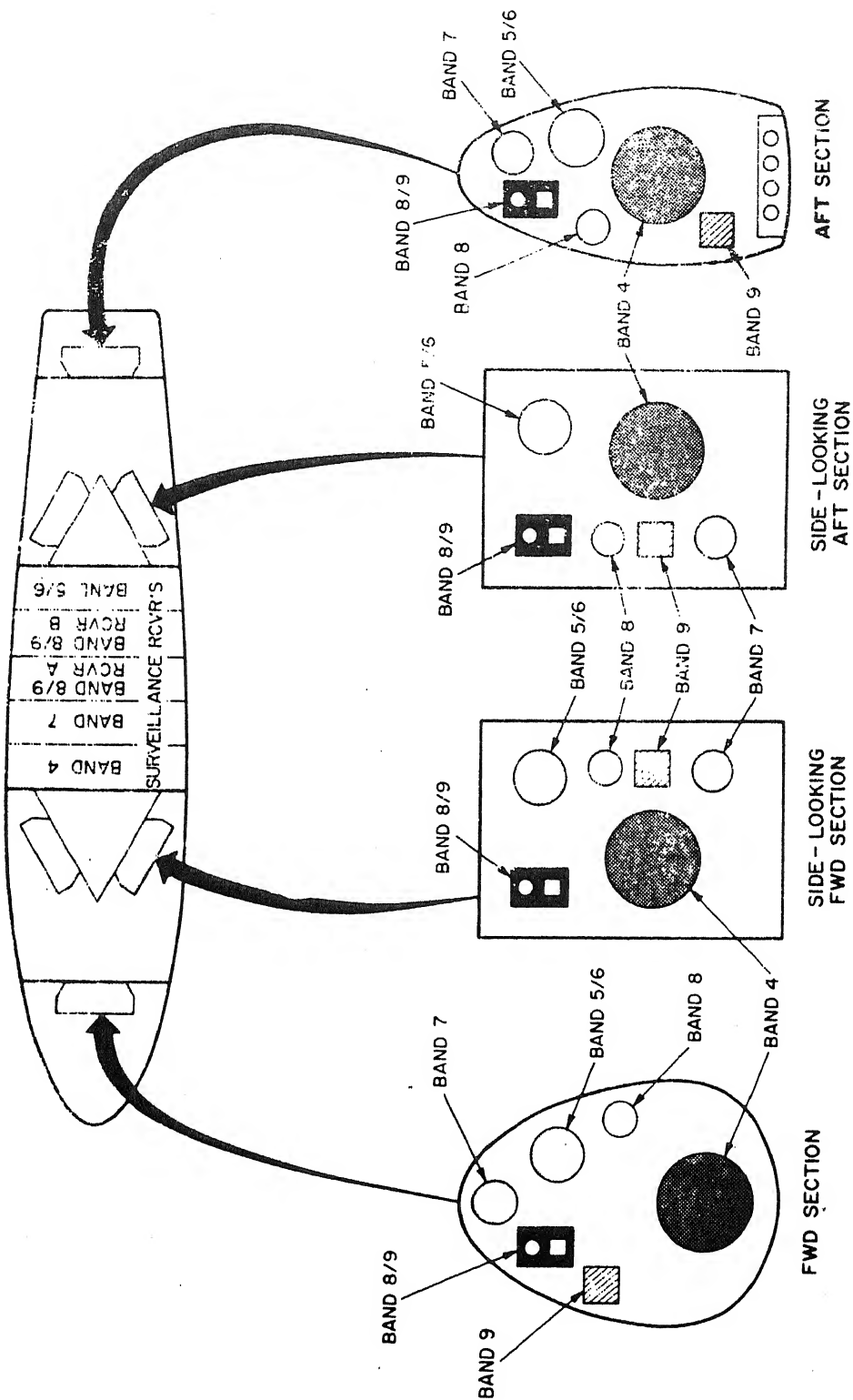


TACTICAL JAMMING SYSTEM (TJS) I-CAP
SIMPLIFIED BLOCK DIAGRAM

EA-6B

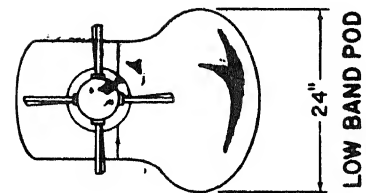
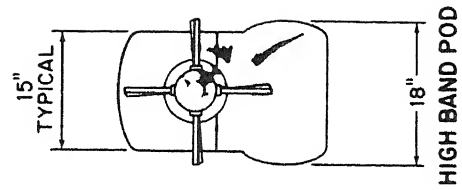
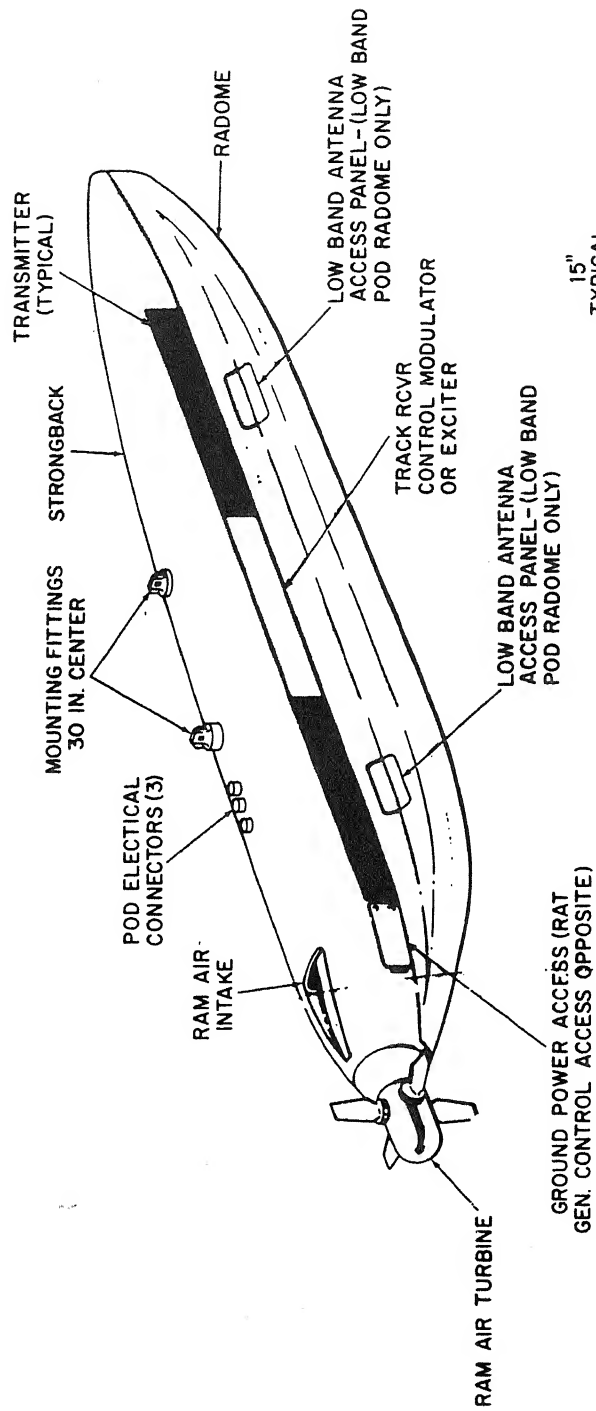
WSI-T-002
I-CAP

SECTION VIEW OF TAIL FIN FAIRING



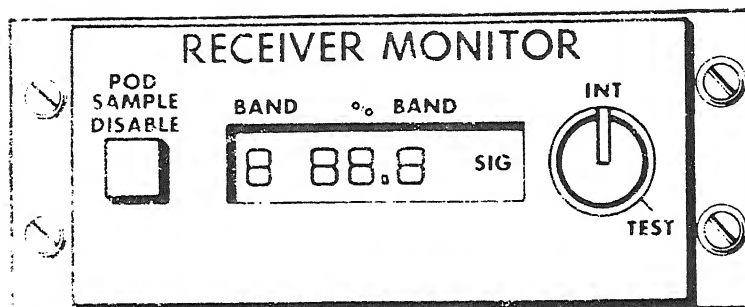
EA-6B
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1-CAP

TAIL FIN POD SURVEILLANCE ANTENNAS

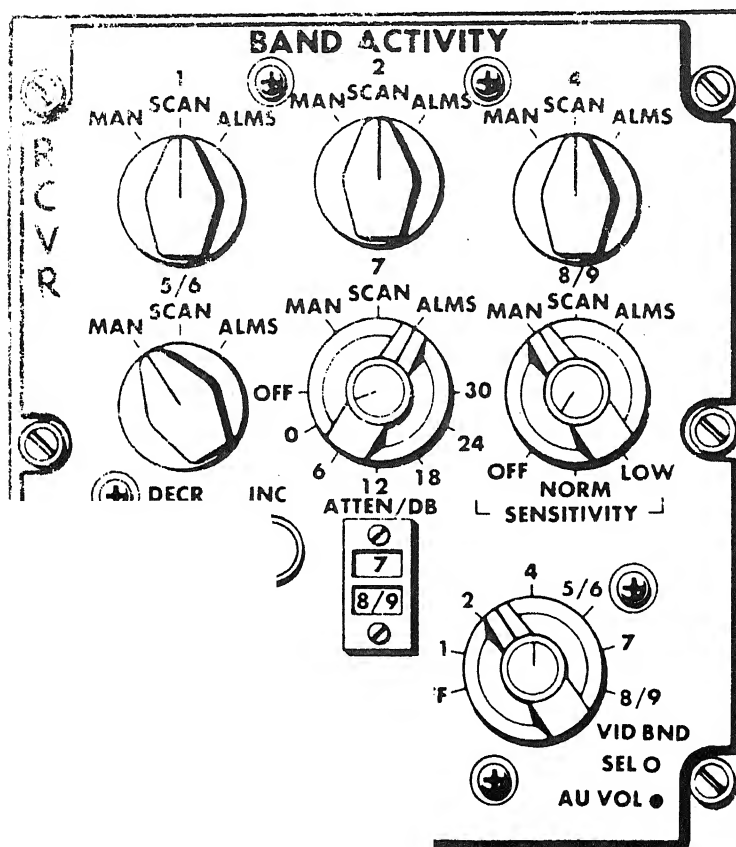


EA-6B
WS1-T-0023
I-CAP

TRACKER JAMMER POD



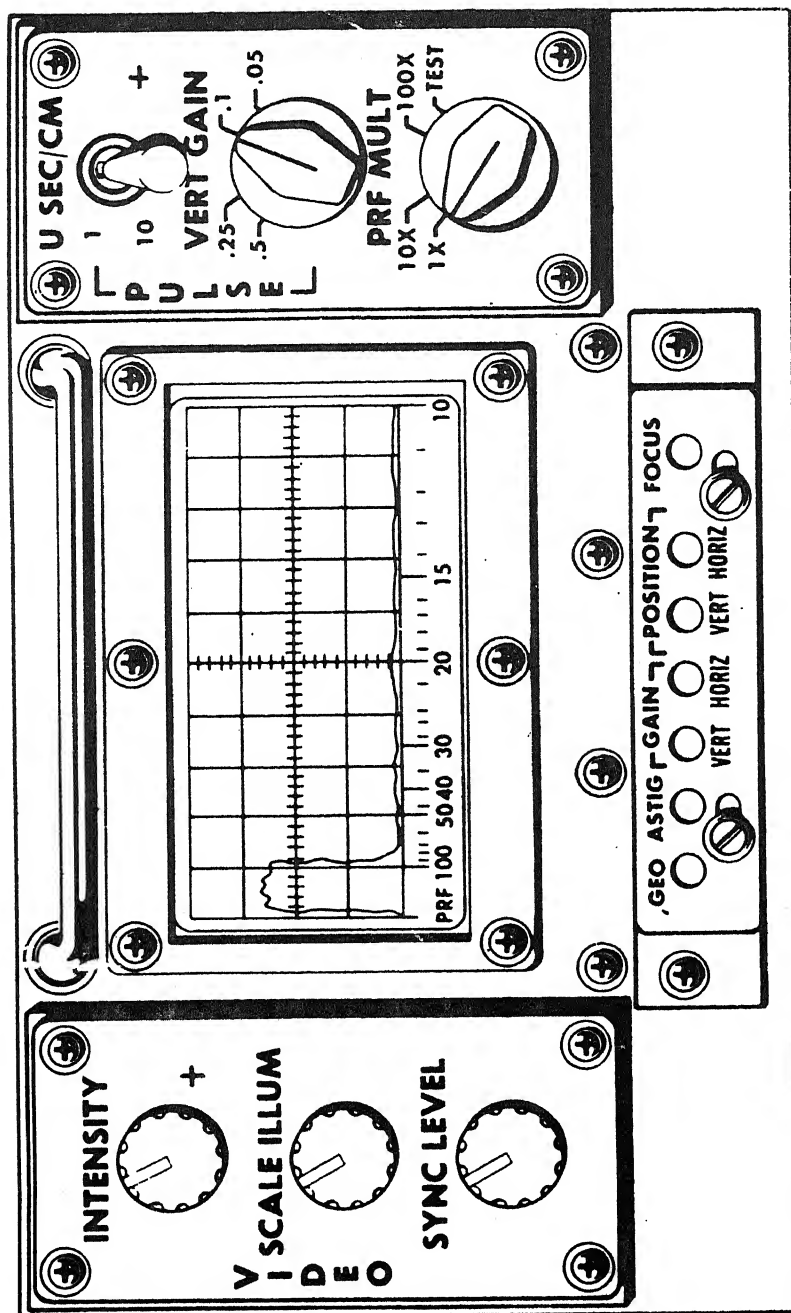
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D-7839A/ALQ-99

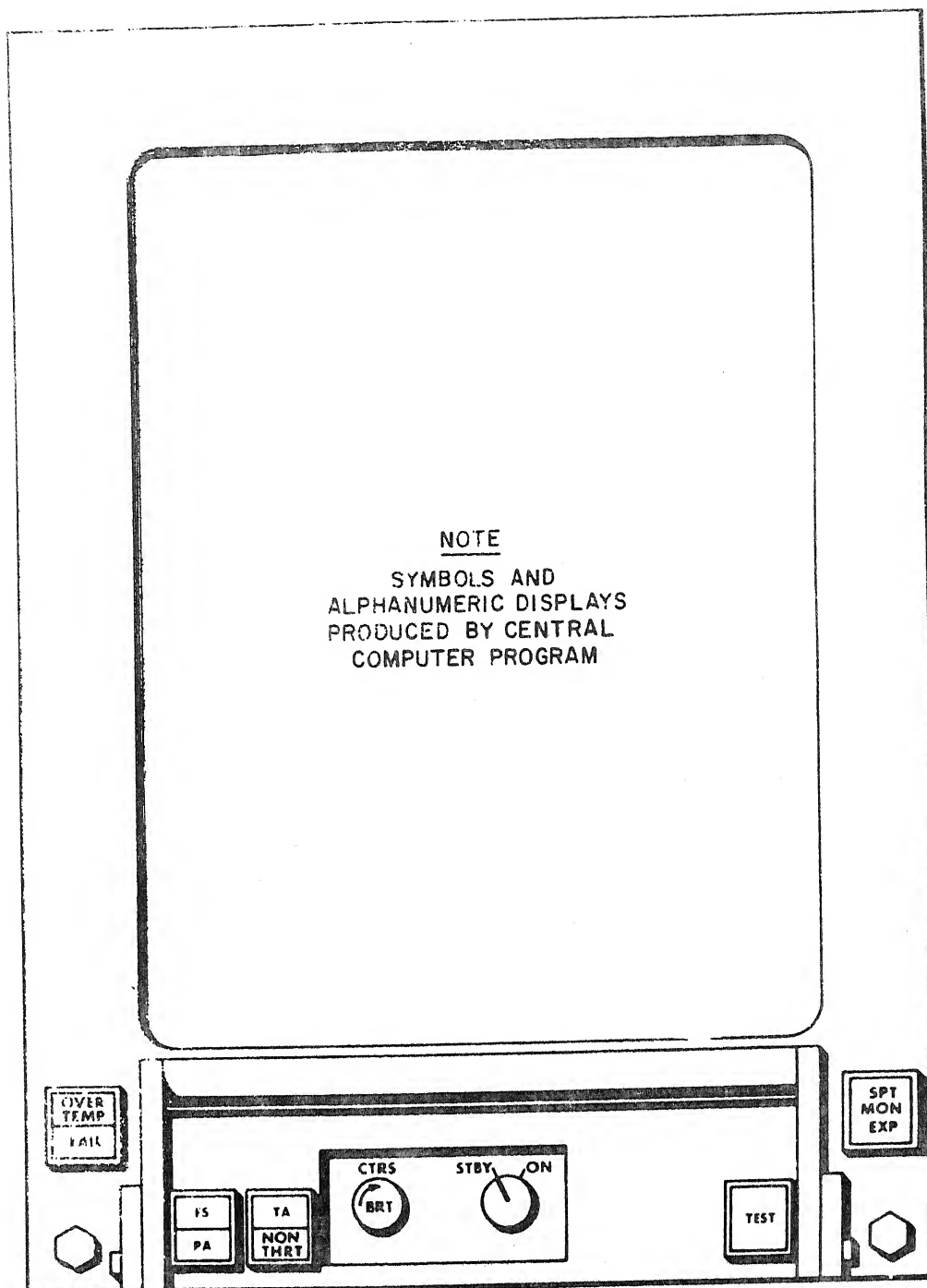
MONITOR PANELS

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WSI-T-0024



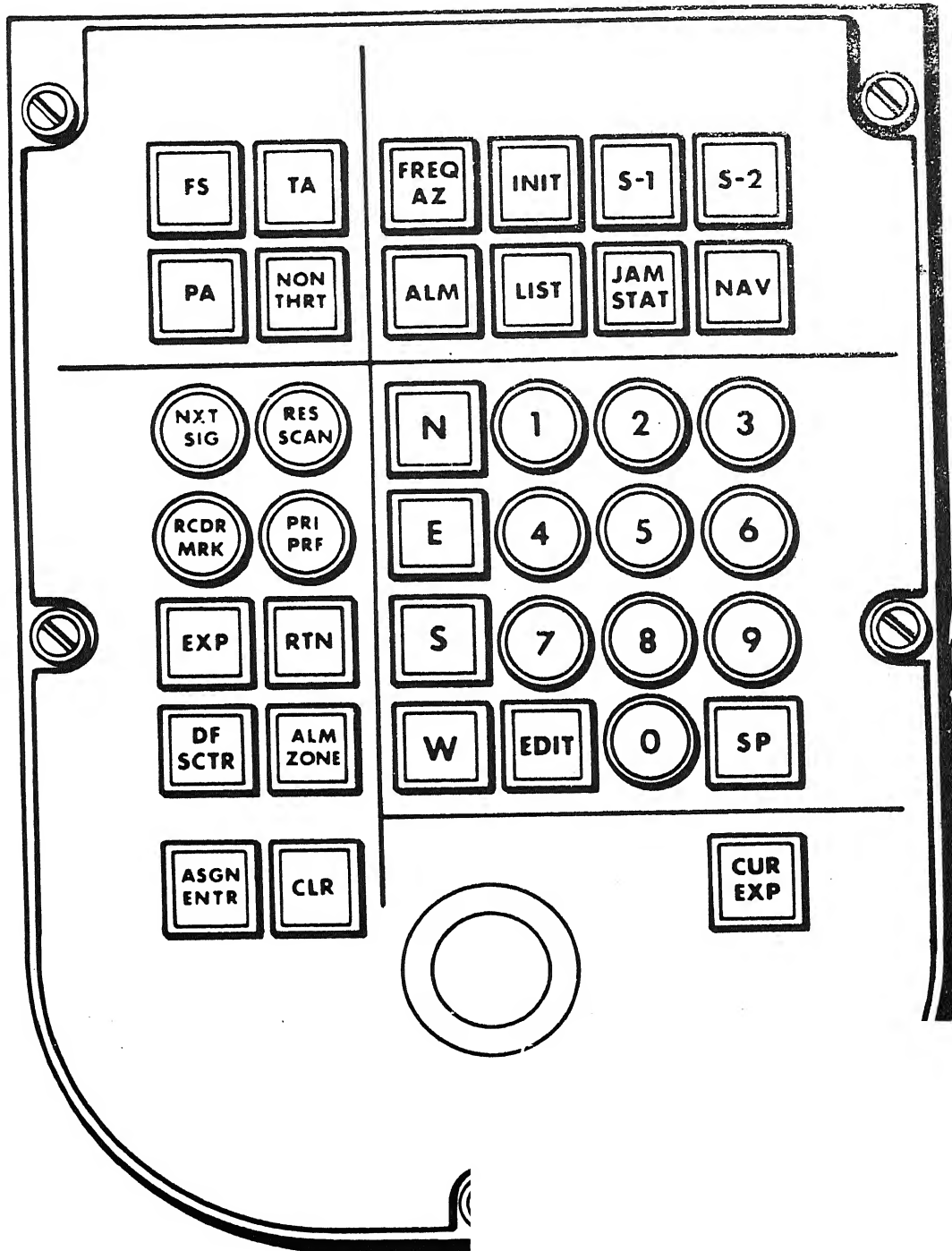
EA-65
WSI-1-0025
1-CAP

VIDEO DISPLAY, IP-933/ALQ-99(V)

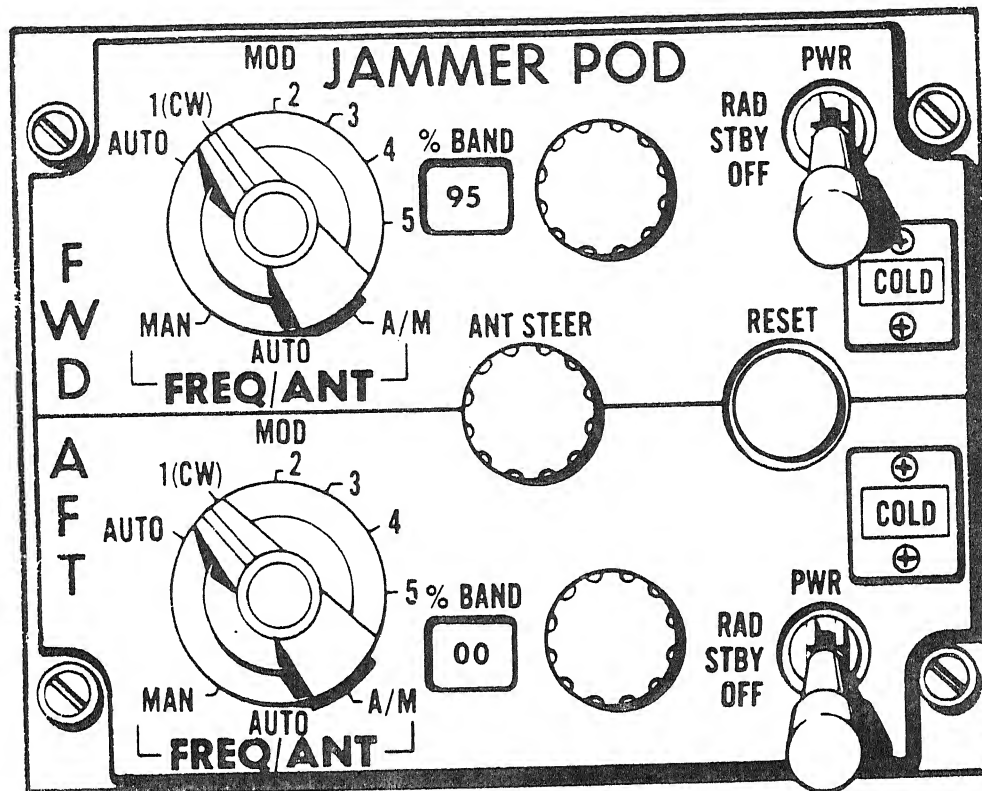


DIGITAL DISPLAY INDICATOR IP-1226/A

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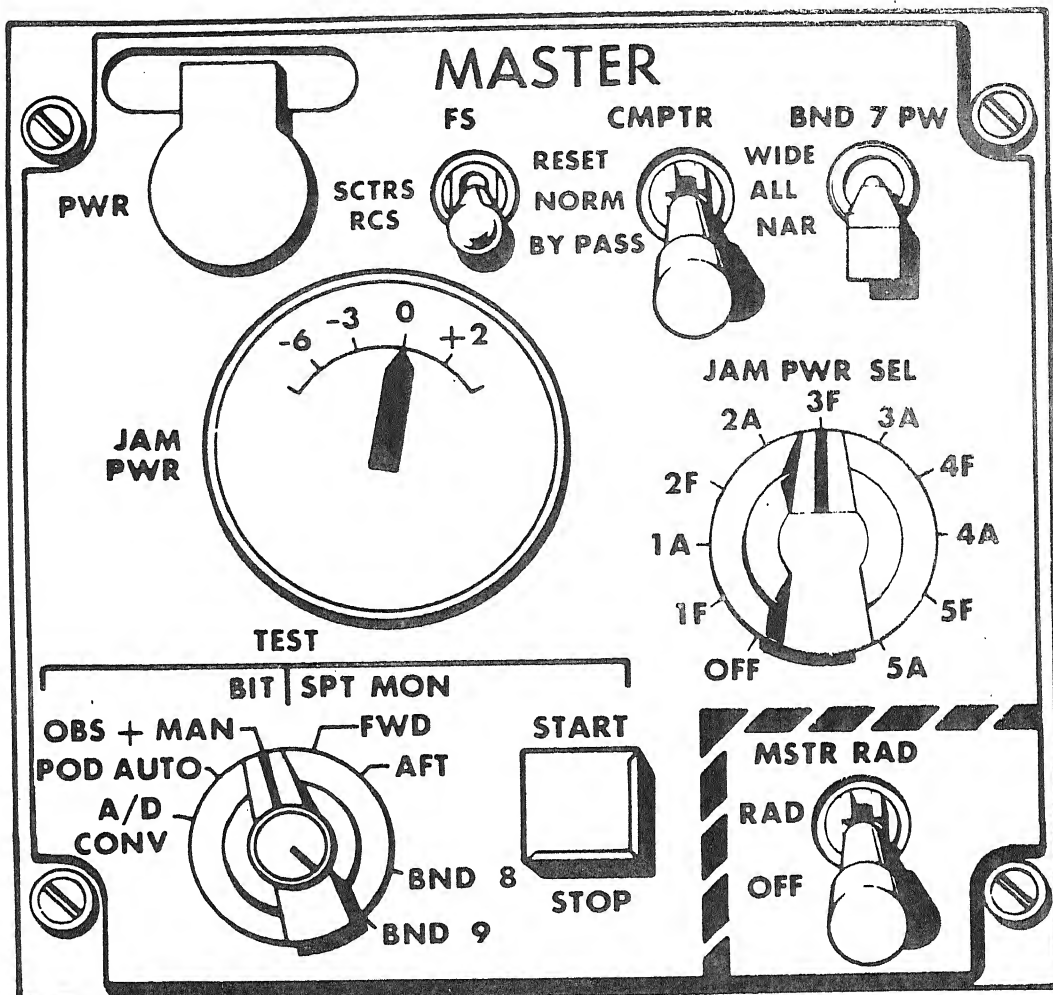


DIGITAL DISPLAY INDICAT



JAMMER POD CONTROL C-8318B/ALQ-99(V)

EA-6B
WS1-T-0028
I-CAP



MASTER CONTROL PANEL C-9978/ALQ-99D

EA-6B
WSI-T-0029
I-CAP

NAV ONLY	CMPTR 1A	ATT LIMIT	WINDS
FWD PWR	CMPTR CP	FREQ MEM	TAS/HDG
AFT PWR	DIS DATA	TRK LOSS	

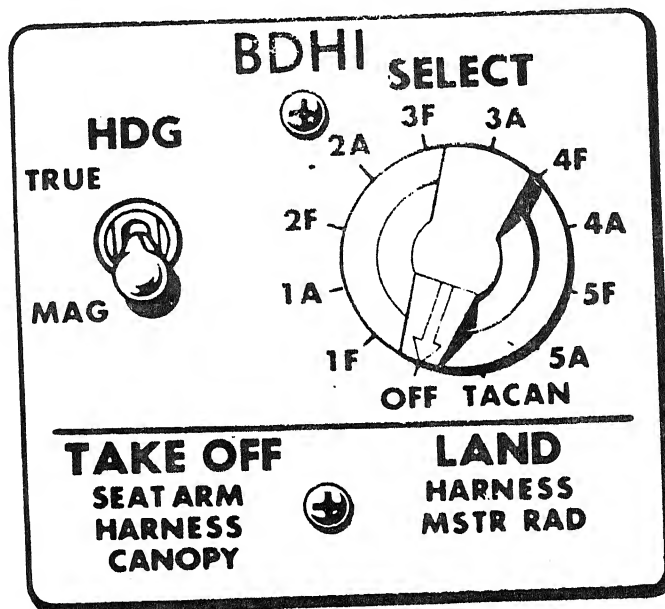
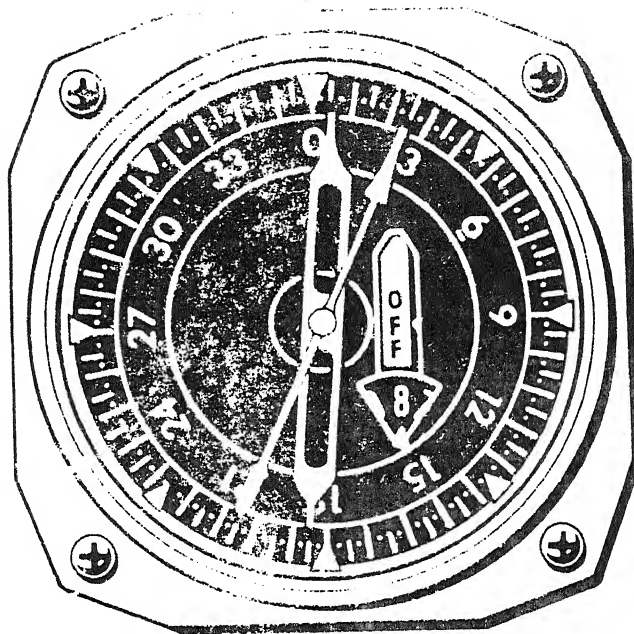
JAMMER STATUS

STA 1	STA 2	STA 3	STA 4	STA 5
PWR LOSS	PWR LOSS	PWR LOSS	PWR LOSS	PWR LOSS
NOT RDY	NOT RDY	NOT RDY	NOT RDY	NOT RDY
MAN FREQ	MAN FREQ	MAN FREQ	MAN FREQ	MAN FREQ
MAN ANT	MAN ANT	MAN ANT	MAN ANT	MAN ANT
JAM 1	JAM 1	JAM 1	JAM 1	JAM 1
JAM 2	JAM 2	JAM 2	JAM 2	JAM 2

PWR LOSS	PWR LOSS	PWR LOSS	PWR LOSS	PWR LOSS
NOT RDY	NOT RDY	NOT RDY	NOT RDY	NOT RDY
MAN FREQ	MAN FREQ	MAN FREQ	MAN FREQ	MAN FREQ
MAN ANT	MAN ANT	MAN ANT	MAN ANT	MAN ANT
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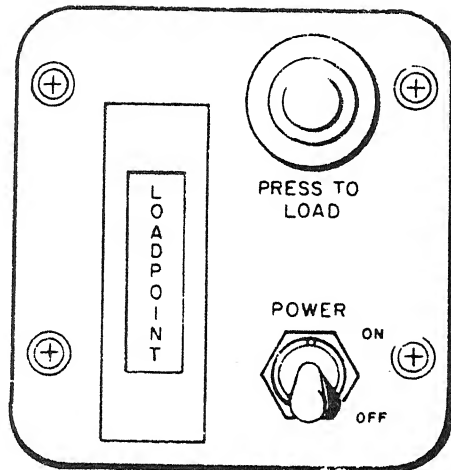
JAMMER STATUS PANEL

EA-6B
 WSI-T-0030
 I-CAP



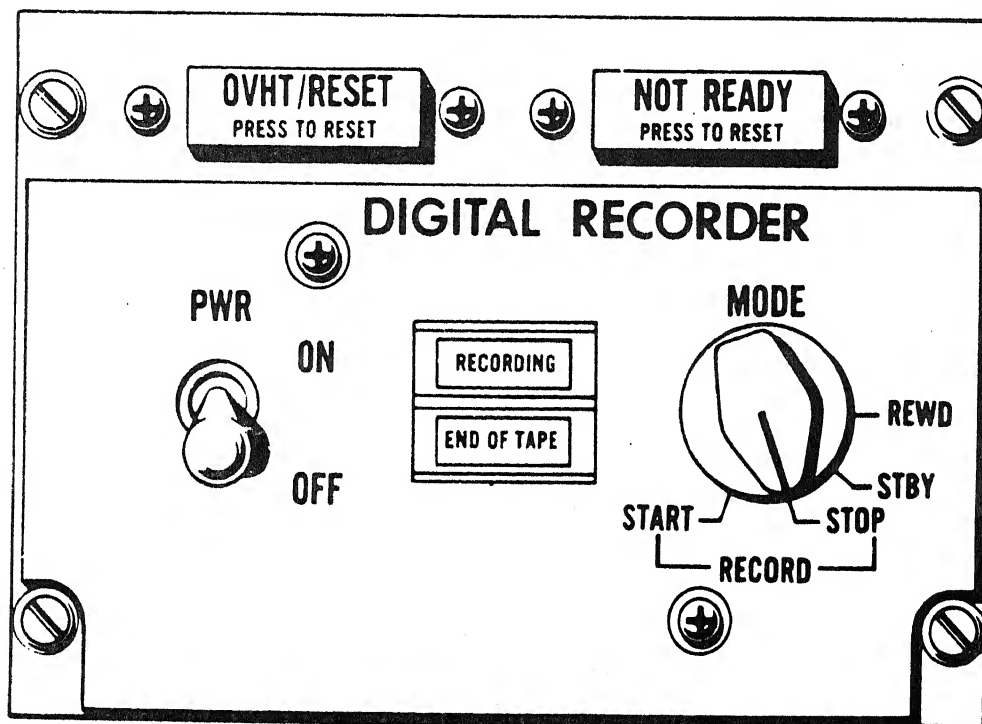
BDHI AND BDHI CONTROL PANEL

EA-6B
WSI-T-0031
I-CAP



CONTROL INDICATOR
TAPE RELOADING
C-9495/ASH-30

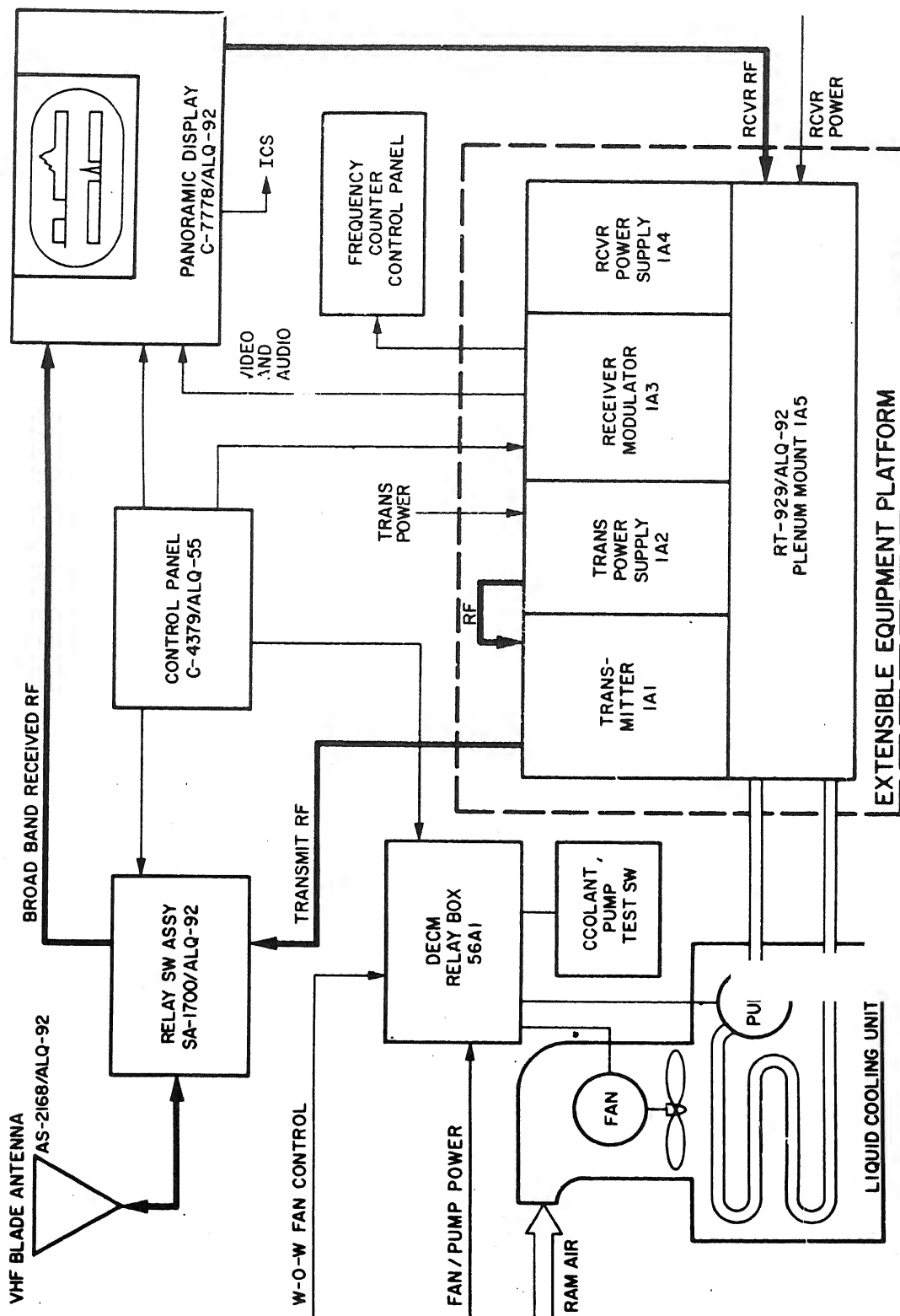
LOCATED BY RECORDER
IN RIGHT FORWARD
EQUIPMENT BAY



DIGITAL RECORDER CONTROL C-9494/ASH-30

DIGITAL RECORDER CONTROLS

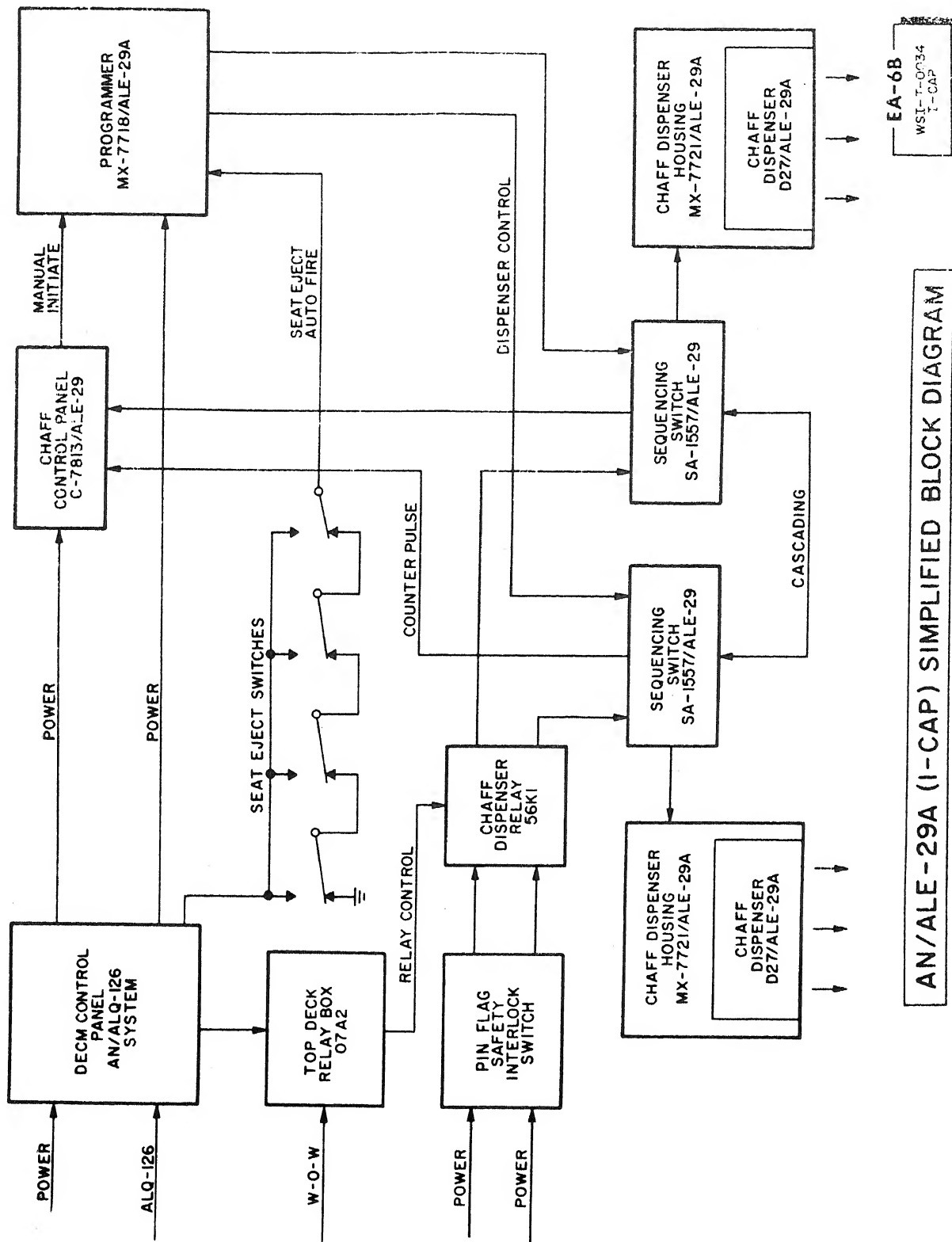
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WS1-T-0032
I-CAP



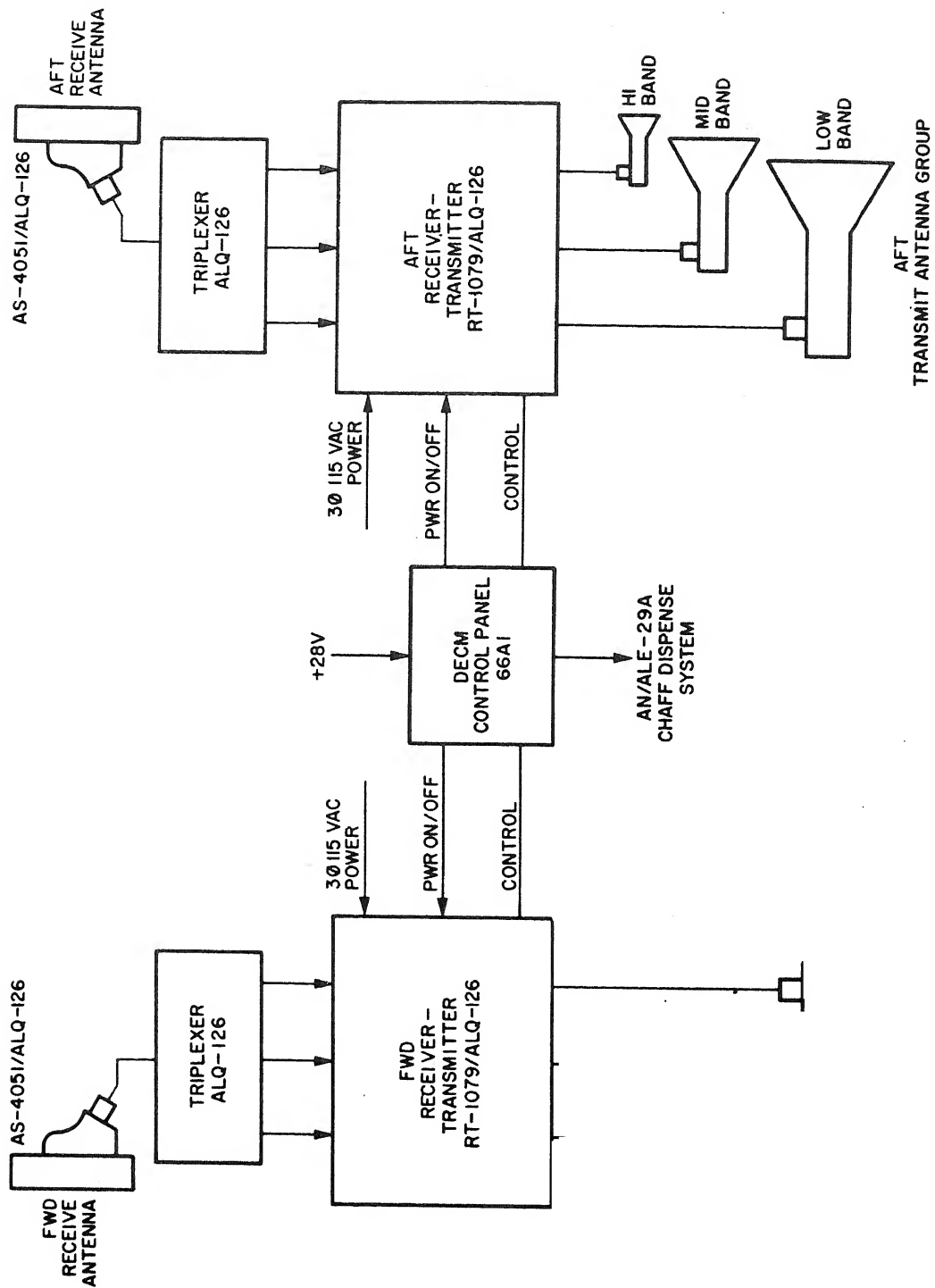
17

EA-68
WSI-T-0033
I-CAP

I-92 (I-CAP) SIMPLIFIED BLOCK DIAGRAM

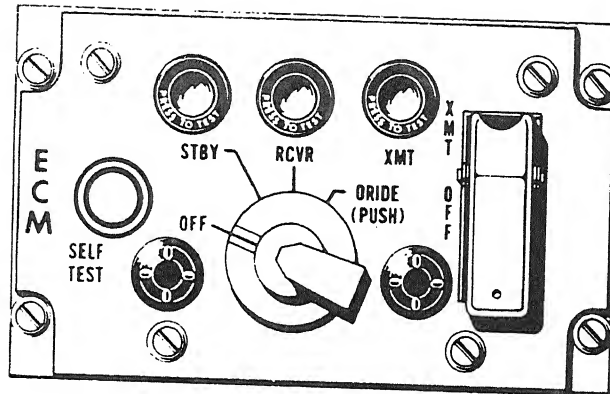


AN/ALE-29A (I-CAP) SIMPLIFIED BLOCK DIAGRAM

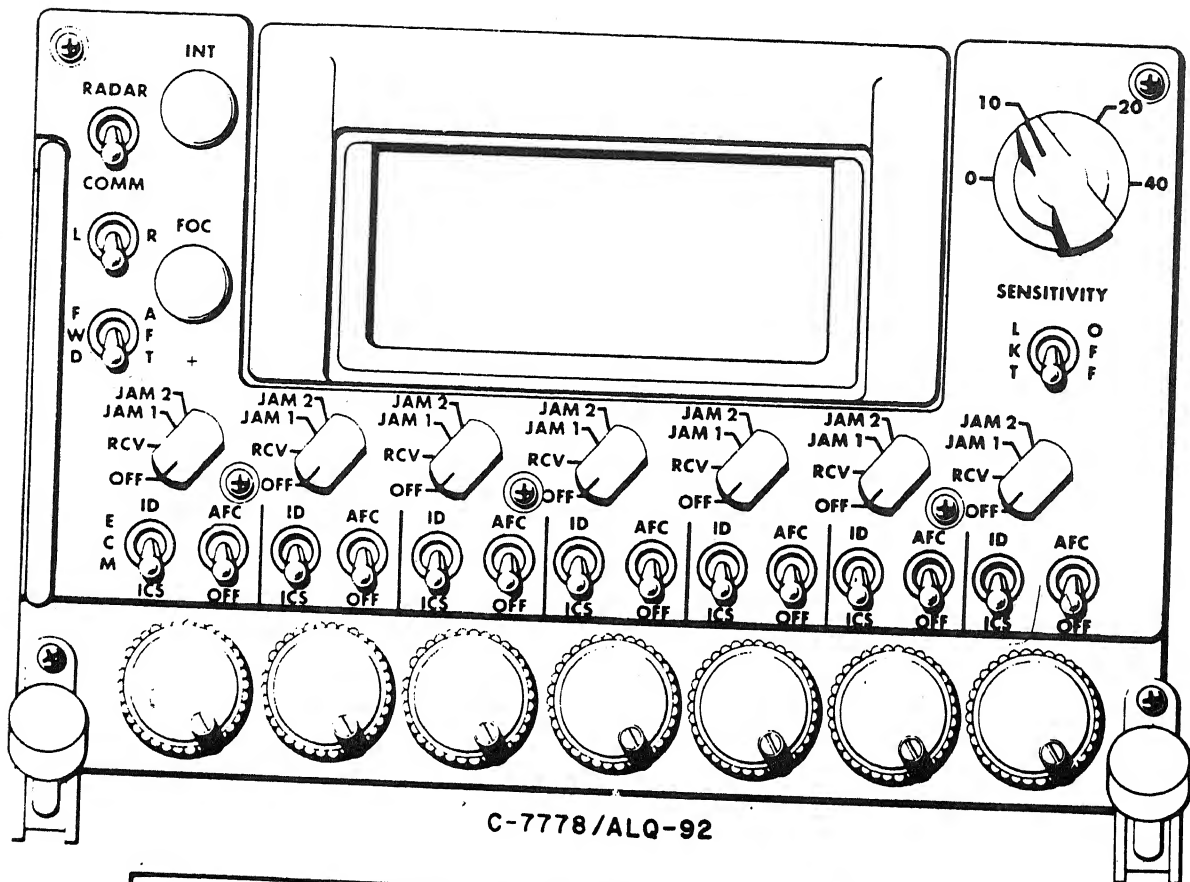


EA-6B
WSI-T-0035
I-CAP

I-CAP) SIMPLIFIED BLOCK DIAGRAM



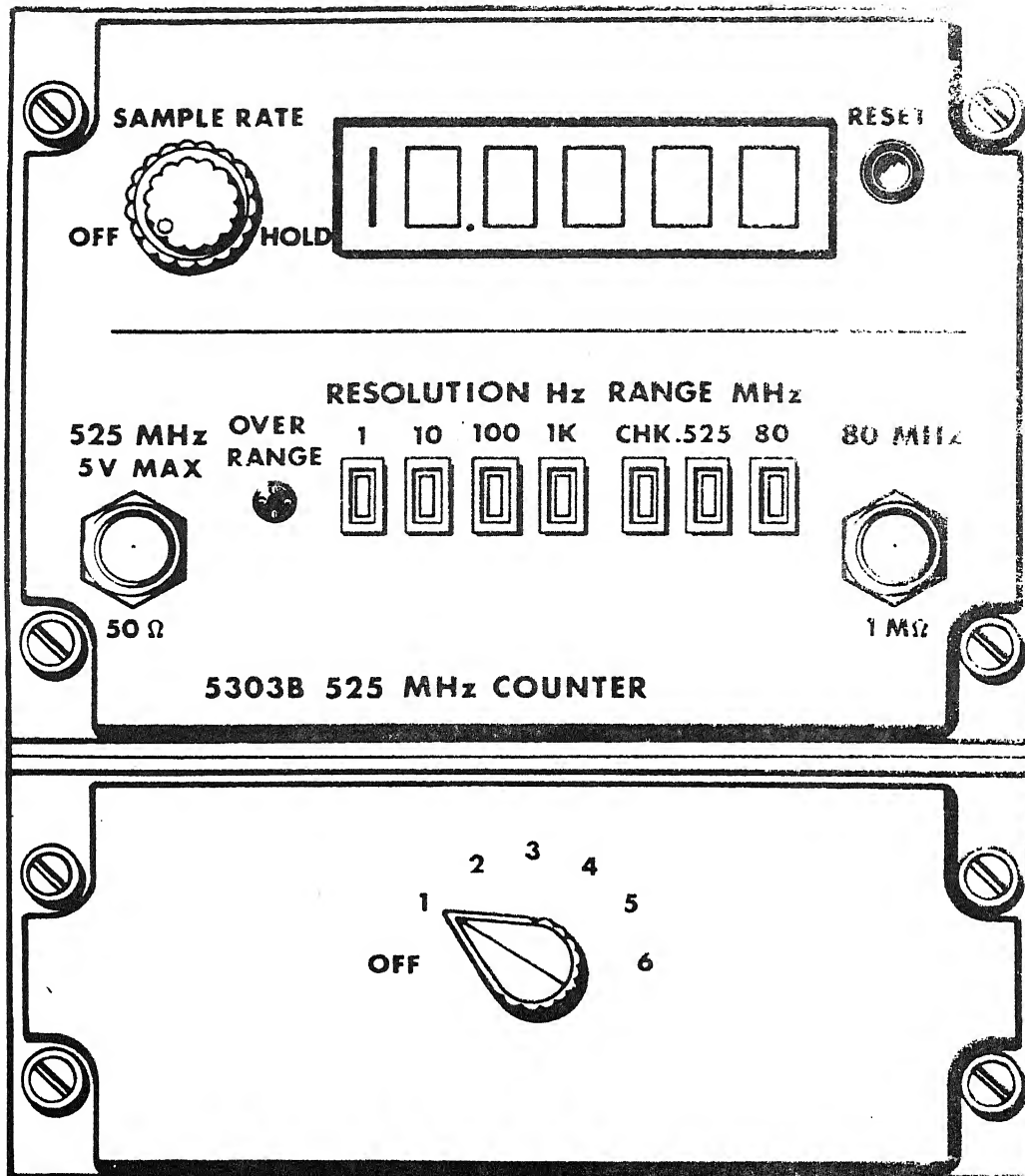
C-4379/ALQ-55



C-7778/ALQ-92

ALQ-92 DISPLAY AND CONTROL PANELS

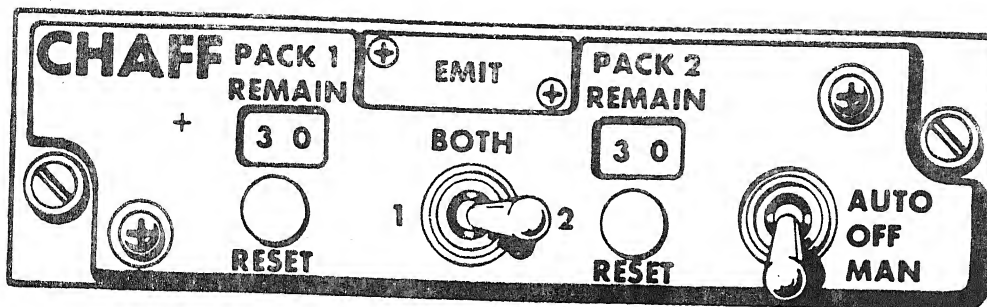
EA-68
WSI-T-0036
I-CAP



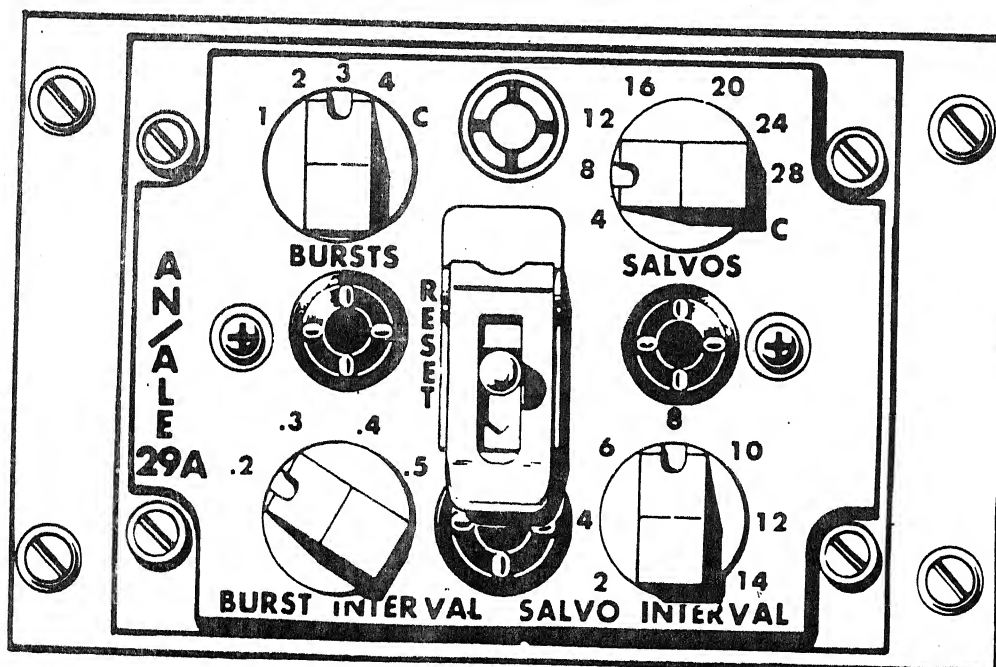
FREQUENCY COUNTER CONTROL UNIT

AN/ALQ-92 FREQUENCY COUNTER PANEL

EA-6B
WSI-T-0037



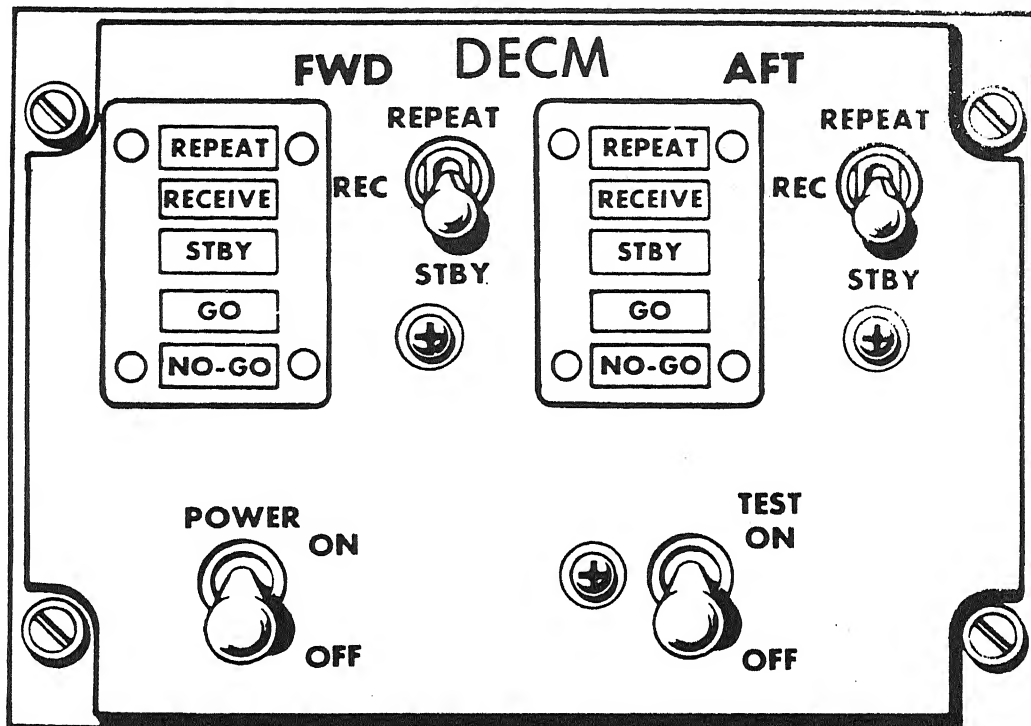
CHAFF CONTROL PANEL C-7813/ALE-29



CHAFF DISPENSER PROGRAMMER PANEL, MX-7718/ALE-29A

ALE-29A CONTROL PANELS

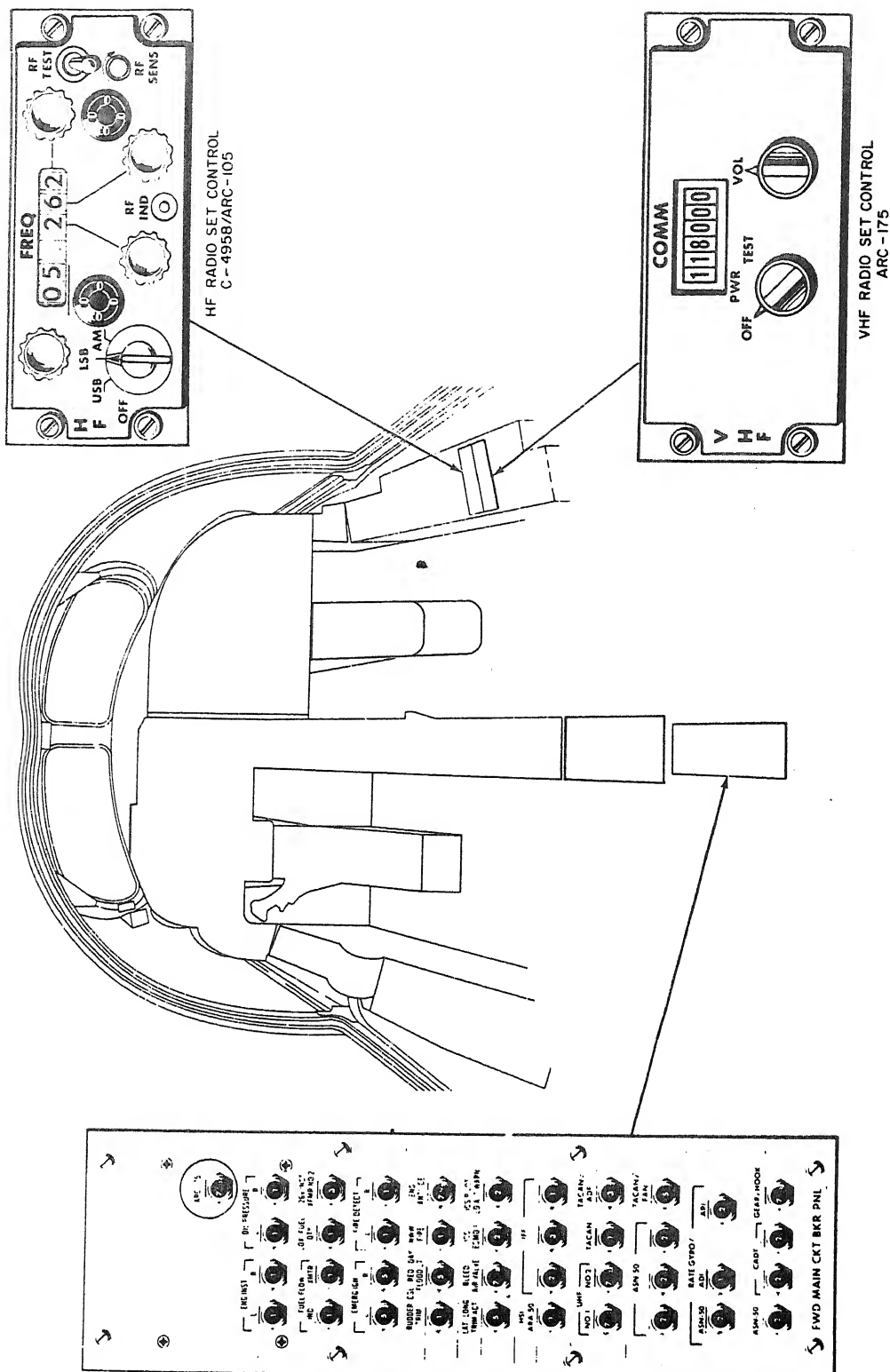
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WSI-T-0038
I-CAP



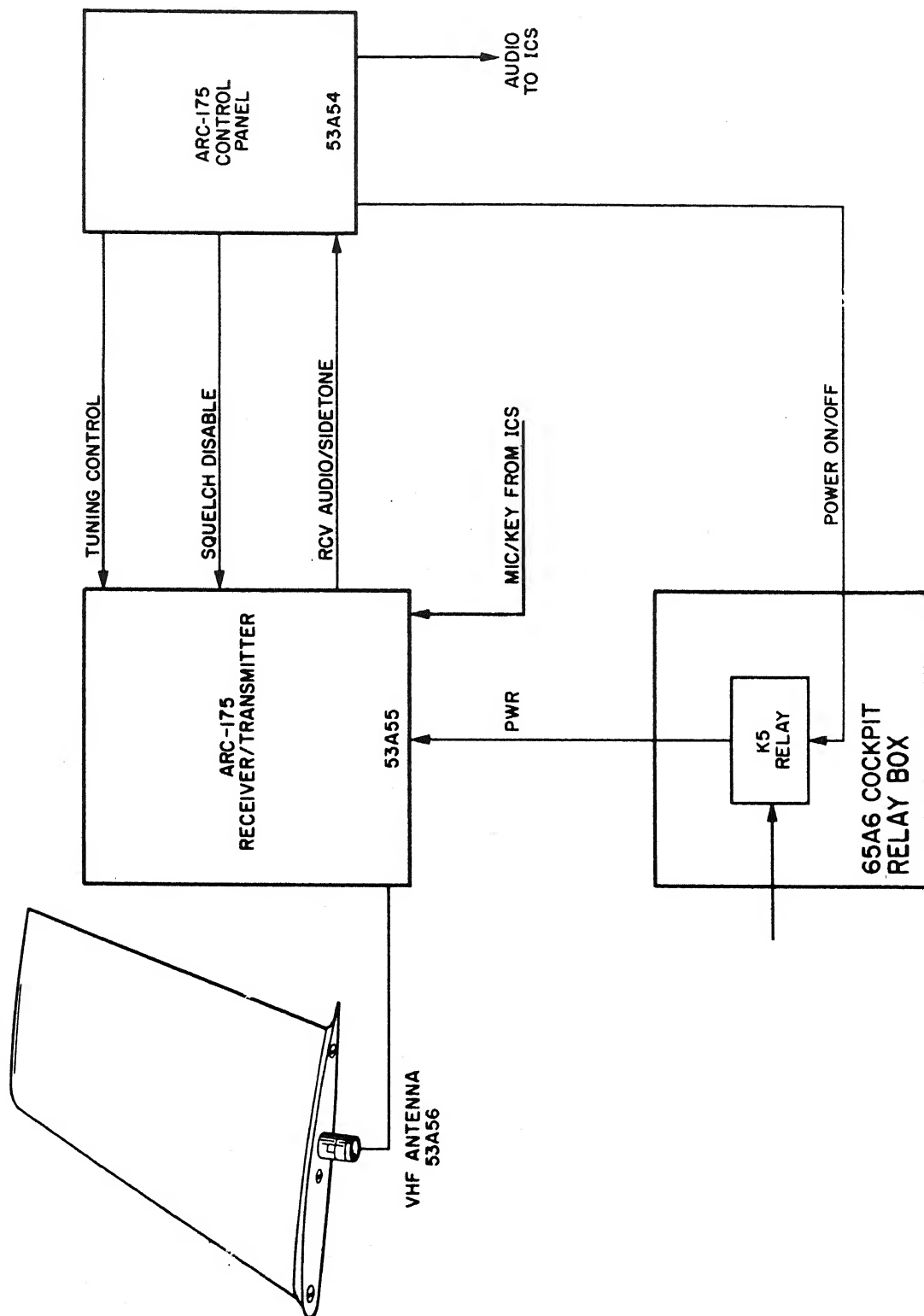
ALQ-126 SYSTEM CONTROL PANEL (CFE)

DECM CONTROL PANEL

EA-6B
WSI-T-0039
I-CAP

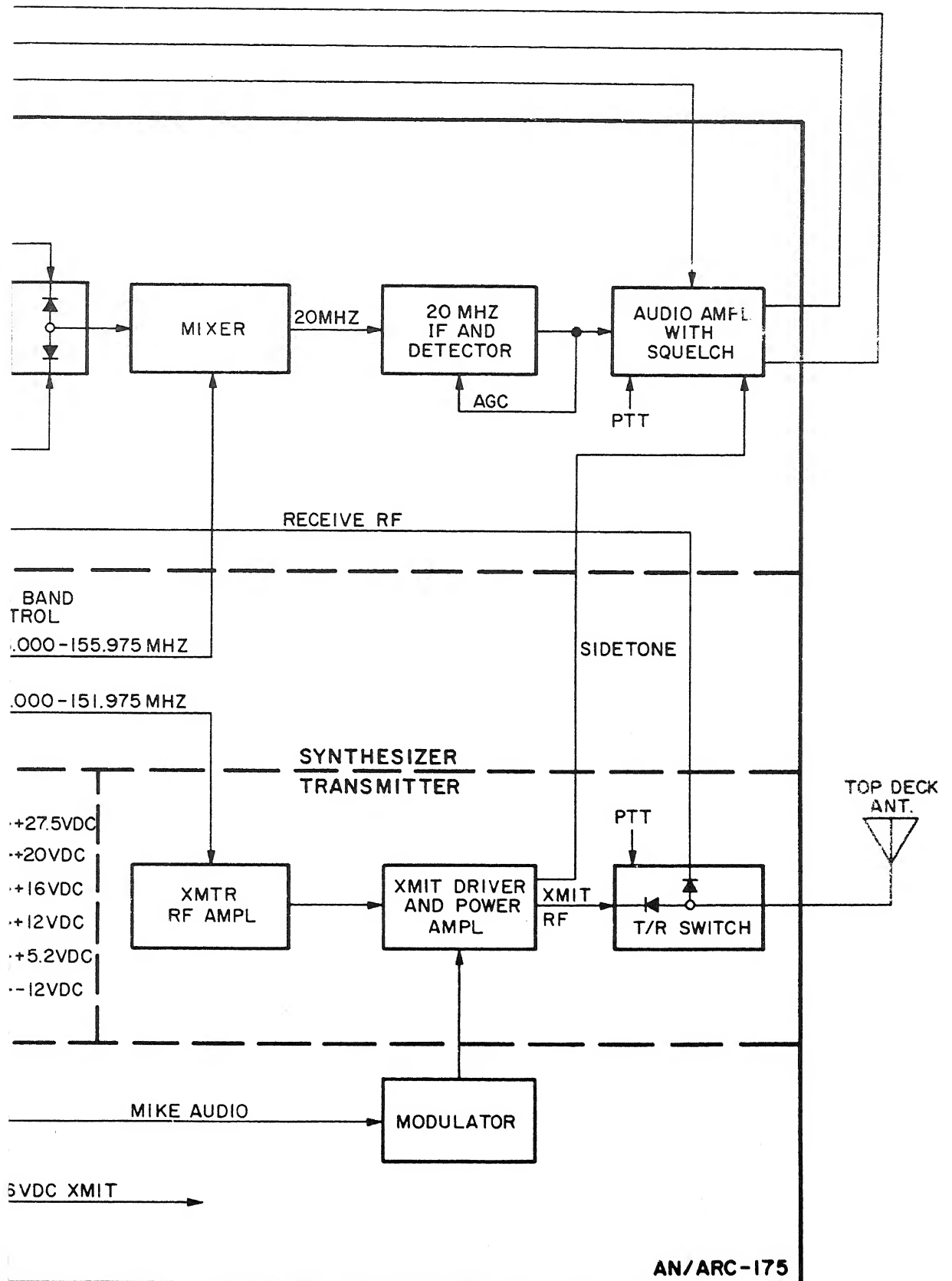


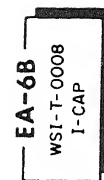
EA-6B
WSI-T-0009
I-CAP



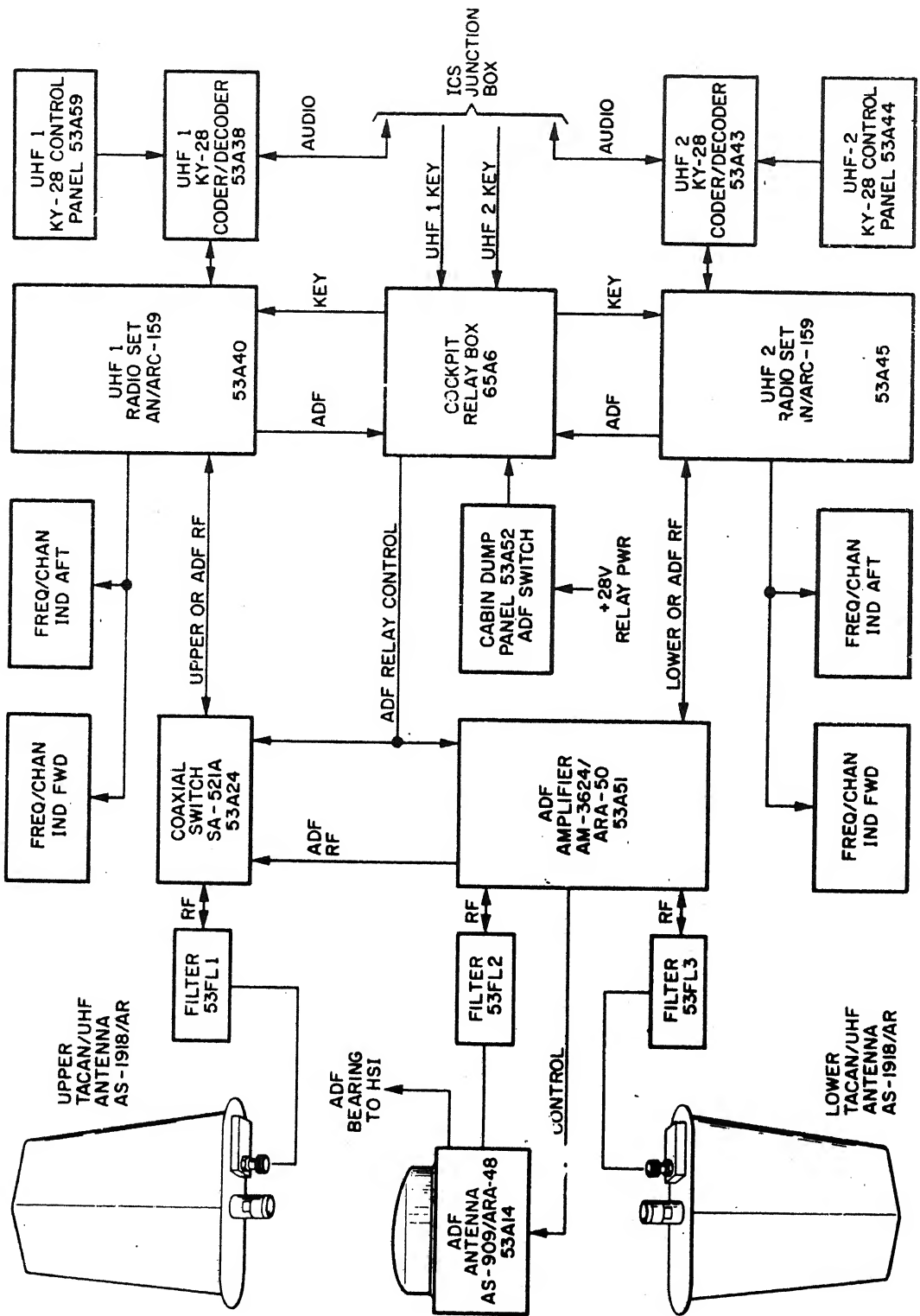
EA-6B
WSI-T-0004
T-CAP

75 (VHF) RADIO SET BLOCK DIAGRAM



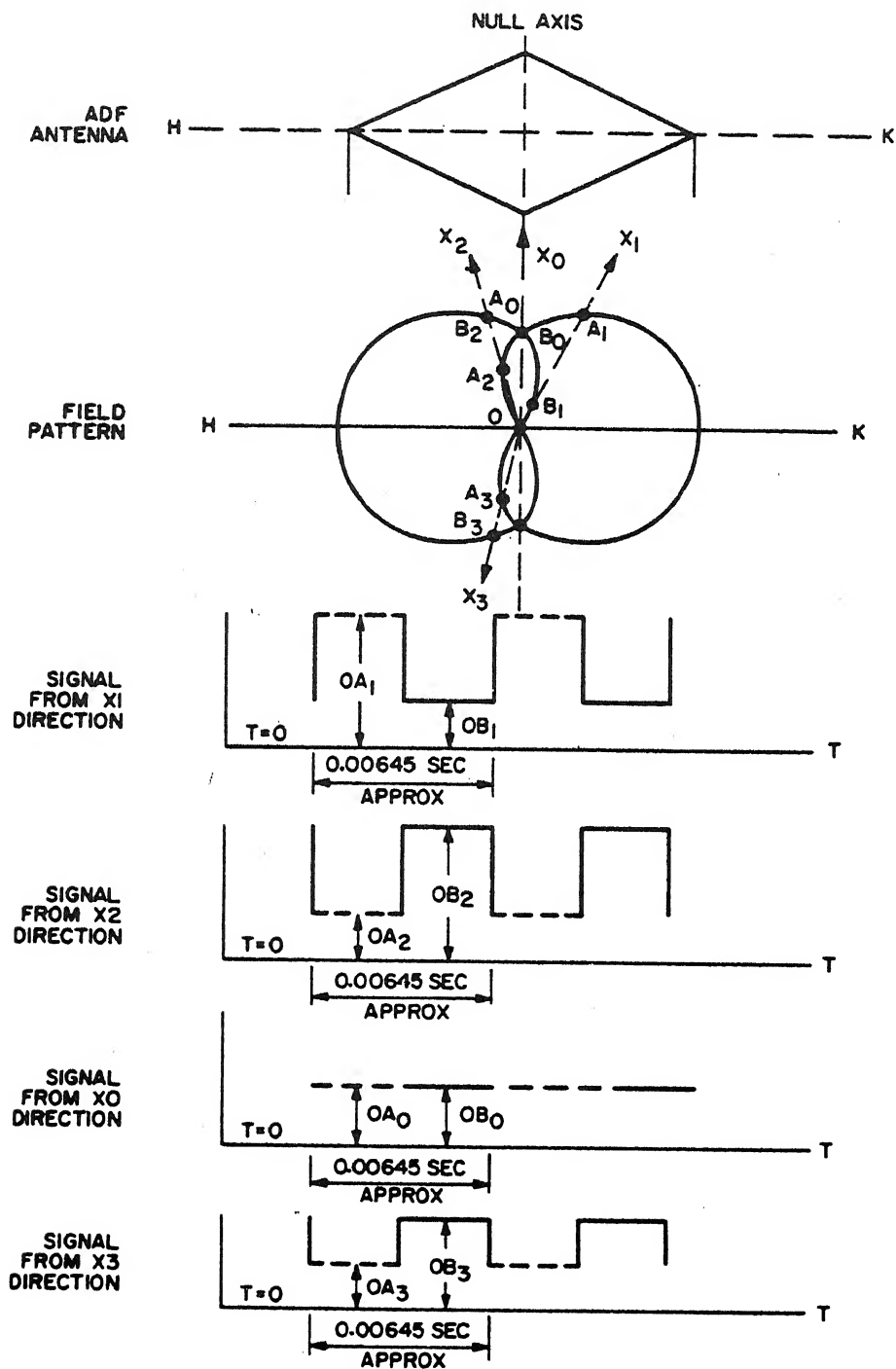


**AN/ARC-159 (UHF 1 & 2) RADIO SET
DISPLAYS AND CONTROLS**



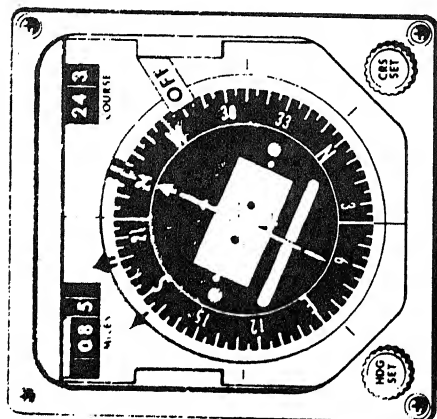
EA-6B
WSI-T-0002
I-CAP

AN/ARC-159 (UHF 1 & 2) RADIO SET BLOCK DIAGRAM

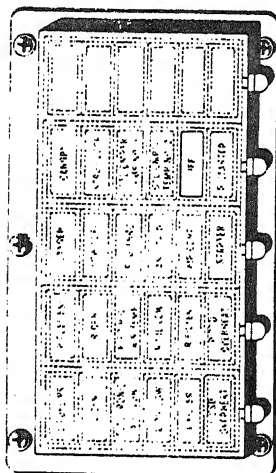


**ADF ANTENNA PATTERN
AND 155Hz SIGNAL**

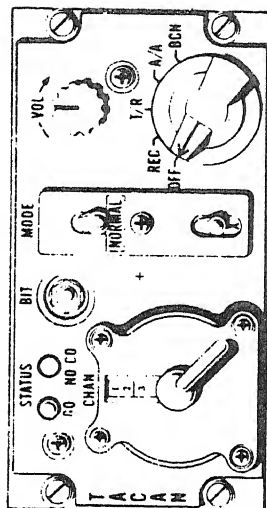
EA-6B
NAV-T-0004
I-CAP



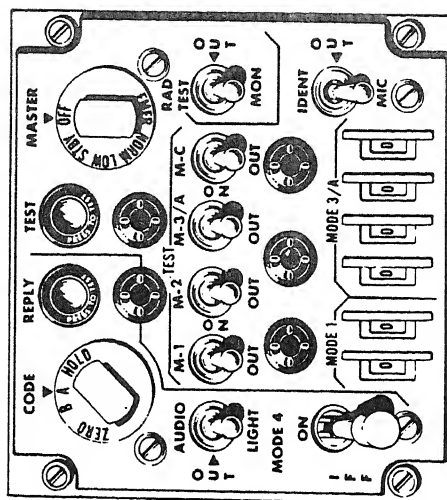
HORIZONTAL
SITUATION
INDICATOR



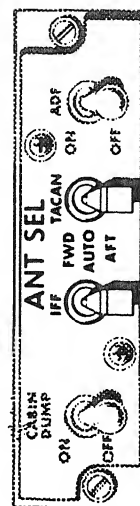
CAUTION LIGHTS PANEL



TACAN CONTROL
C-9054/ARN-84(V)



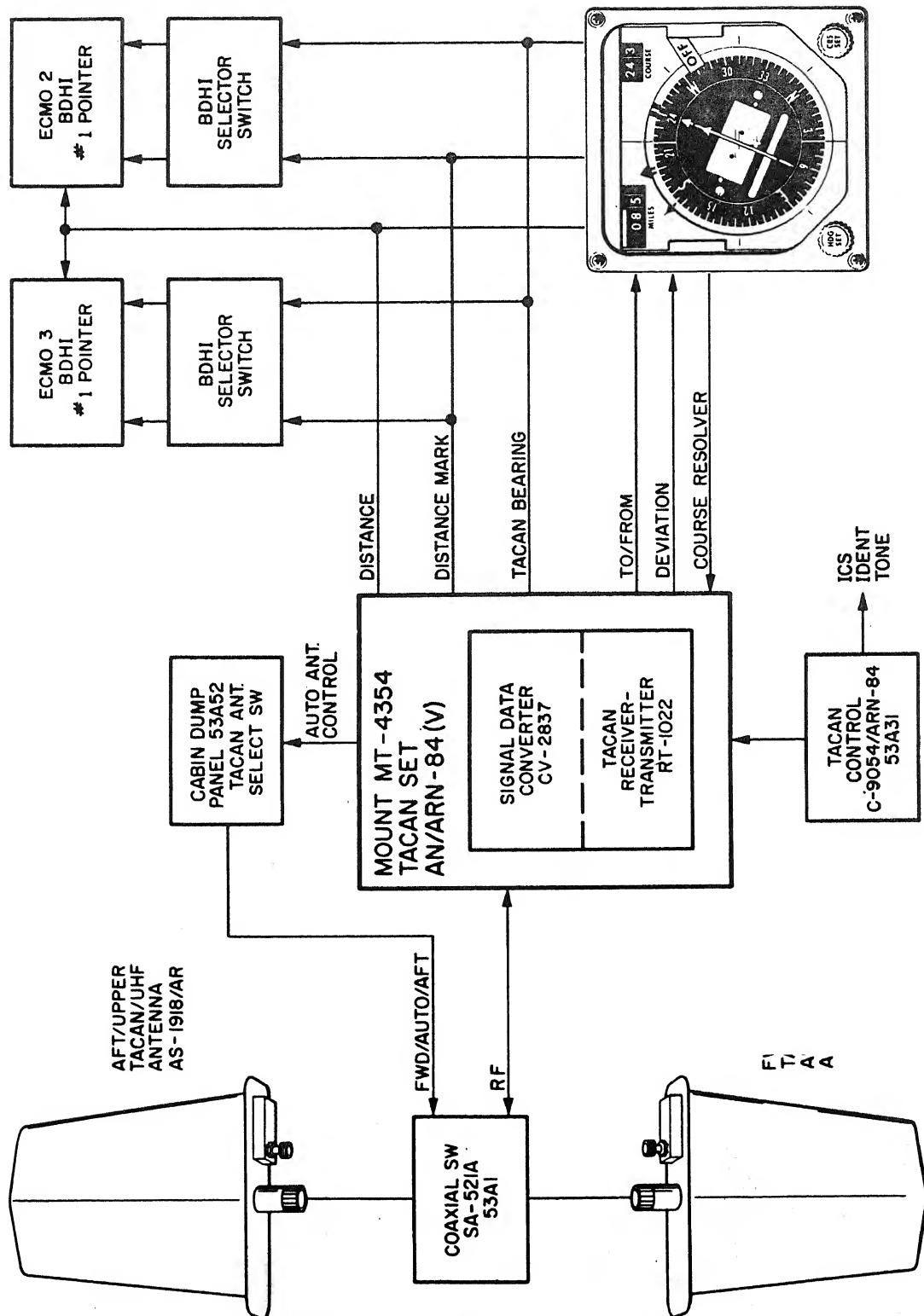
TRANSPONDER SET CONTROL
C-6280(P)/APX

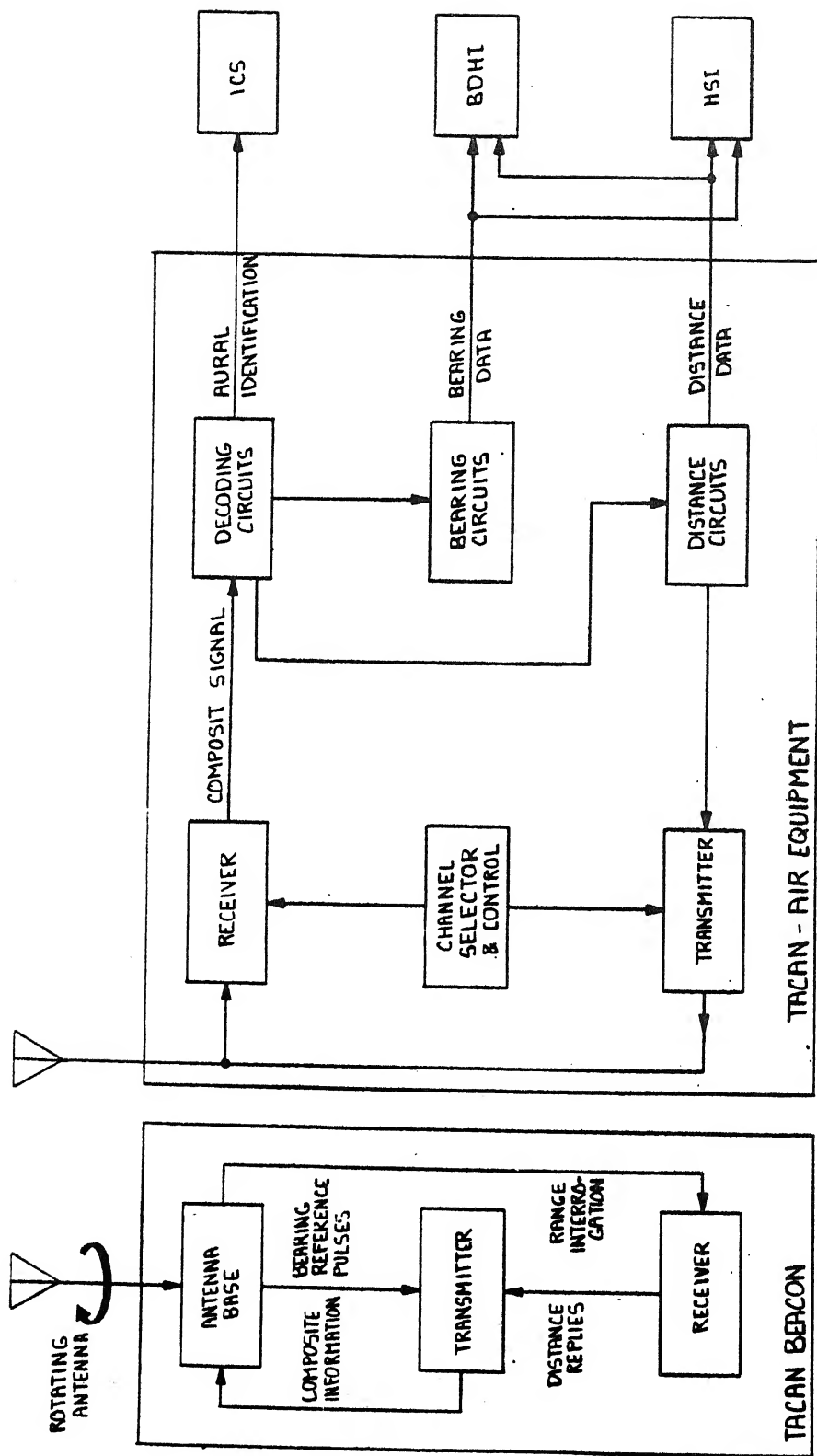


CABIN DUMP PANEL

EA-6B
WSI-T-0010
I-CAP

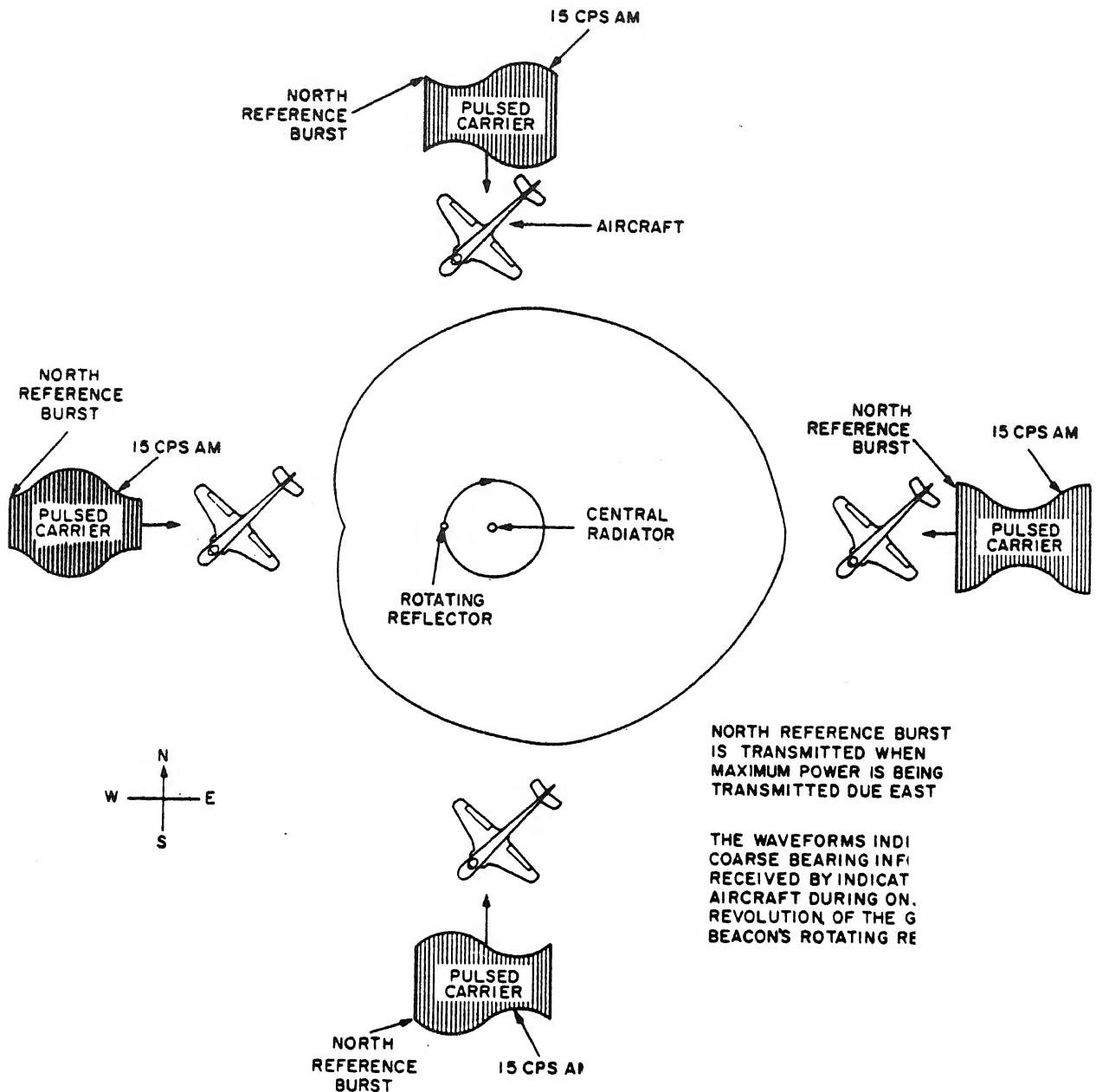
TACAN ARN-84 AND IFF APX-72 DISPLAYS AND CONTROLS



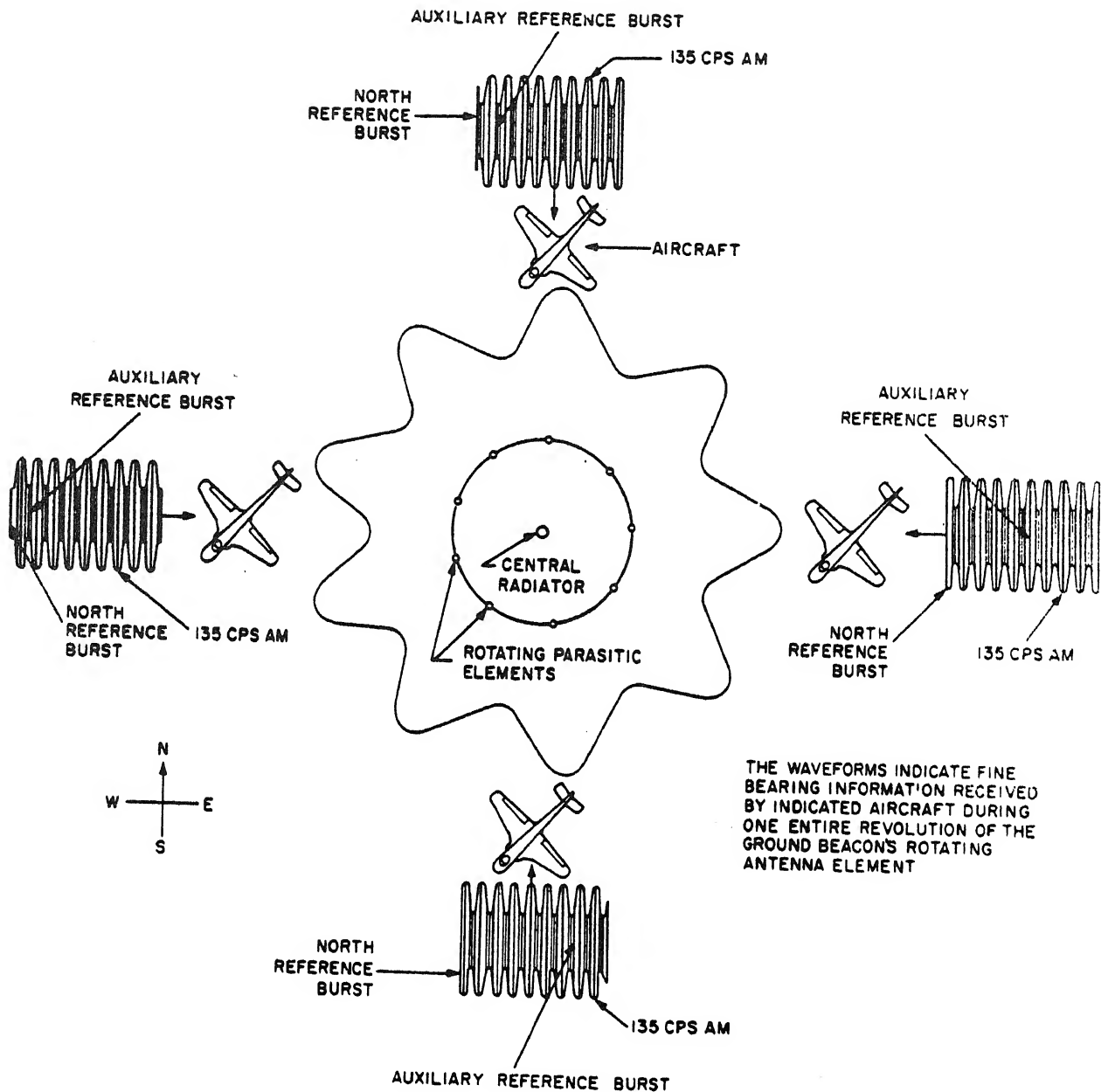


EA-68
NAVY-T-0005
I-CAP

TACAN SIMPLIFIED BLOCK DIAGRAM

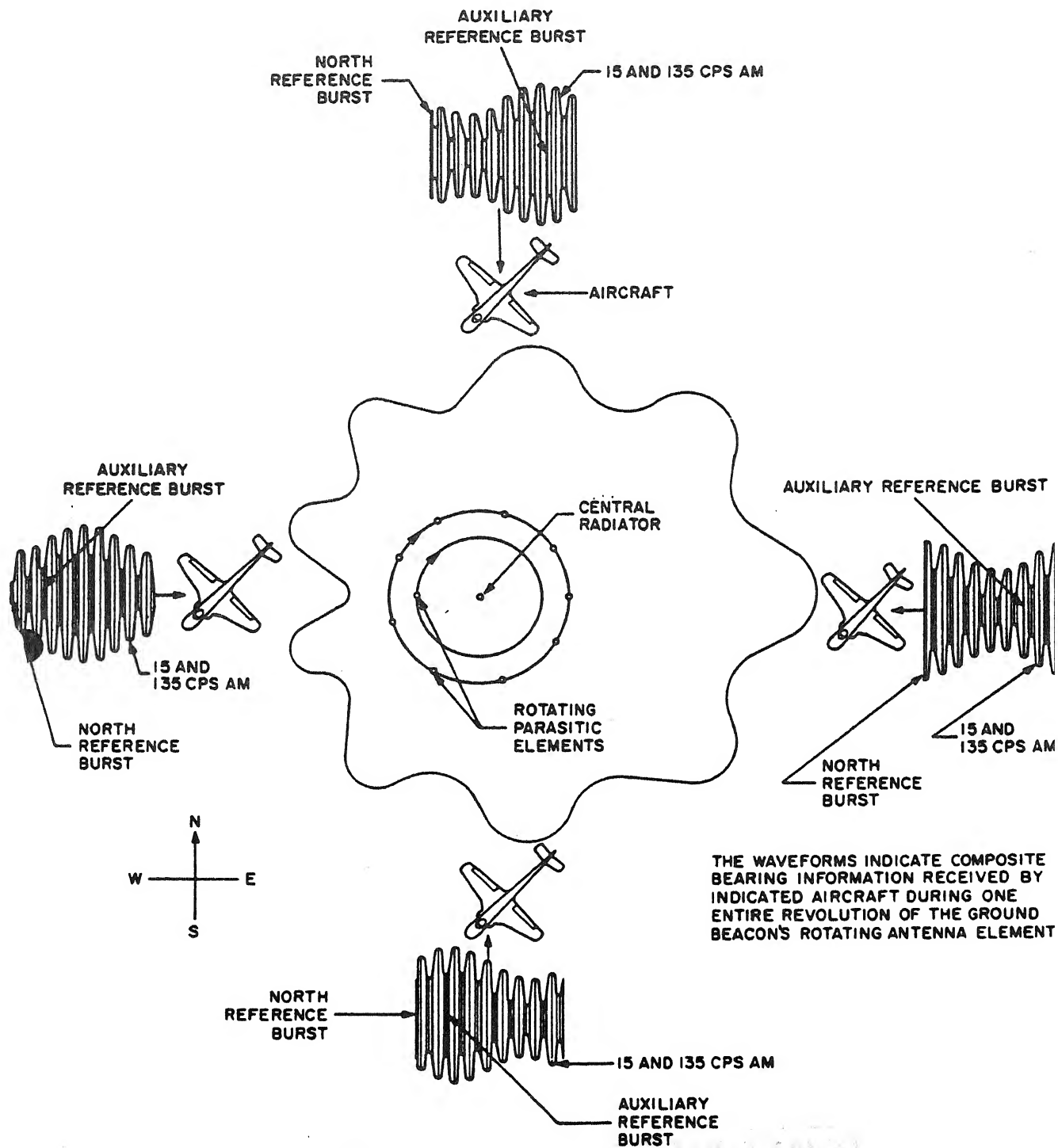


TACAN COARSE BEARING TRANSMISSION



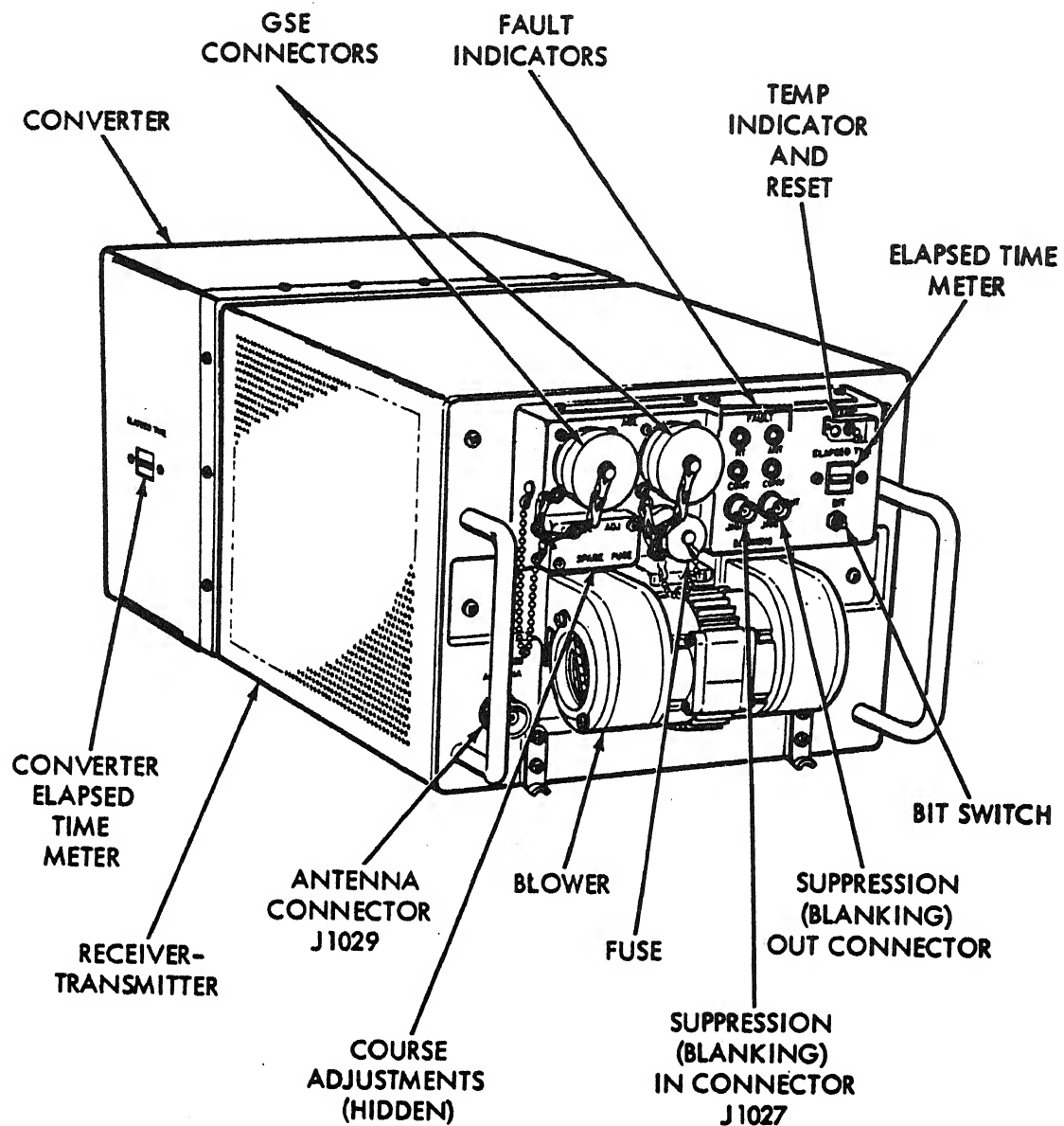
TACAN FINE BEARING TRANSMISSION-RECEPTION

EA-6B
NAV-T-0007
I-CAP



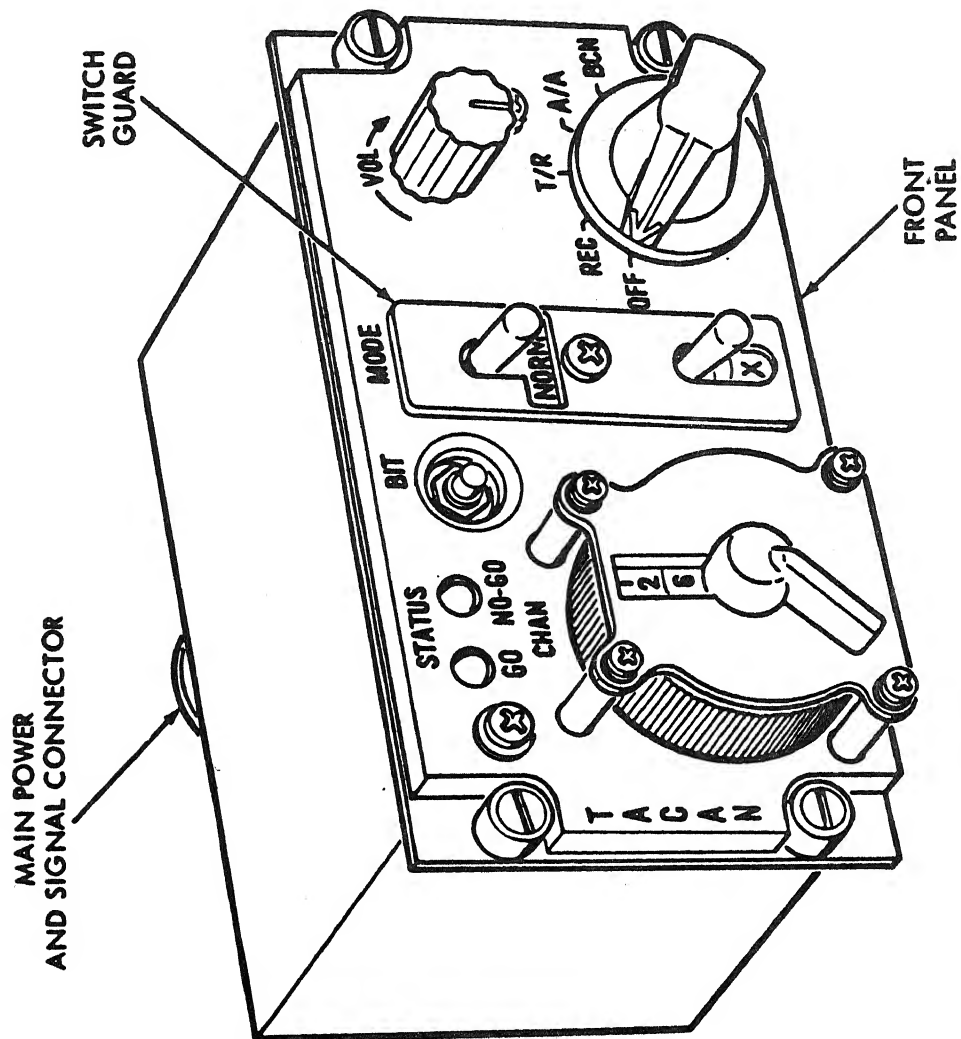
TACAN COMPOSITE BEARING TRANSMISSION-RECEPTION

EA-68
NAV-T-0008
I-CAP



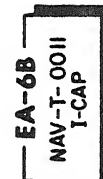
AN/ARN-84(V) CONVERTER / RECEIVER

EA-6B
NAV-T-0009
1-CAP

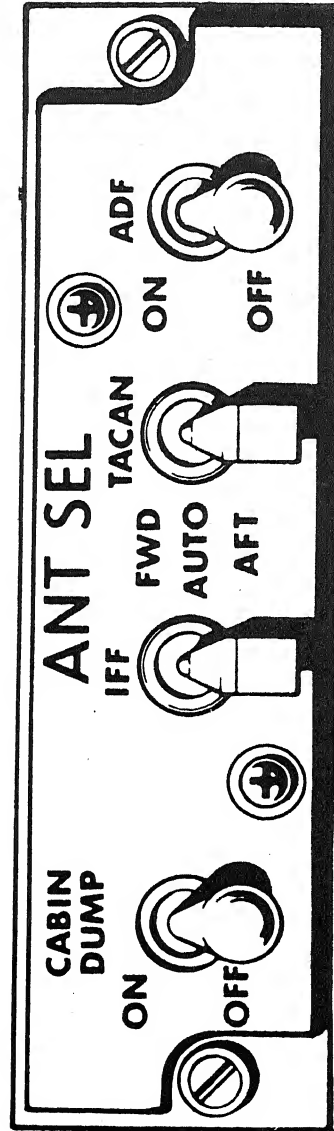


EA-6B
NAV-T-0010
I-CAP

AN/ARN-84 (V) TACAN CONTROL PANEL

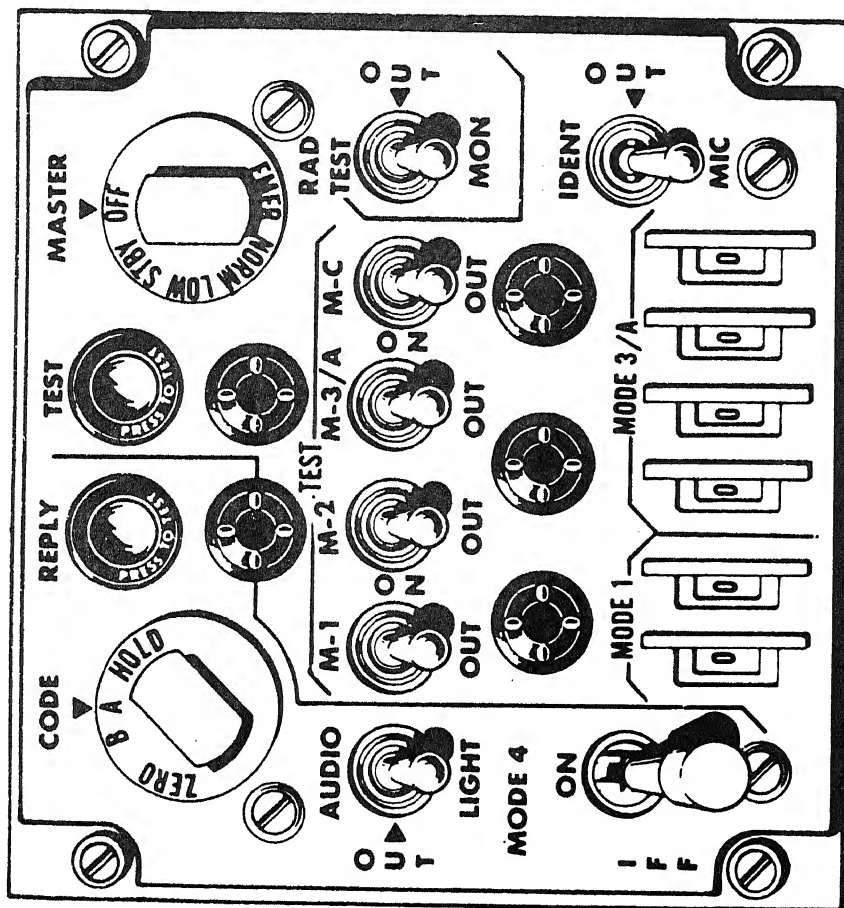


HORIZONTAL SITUATION INDICATOR BLOCK DIAGRAM



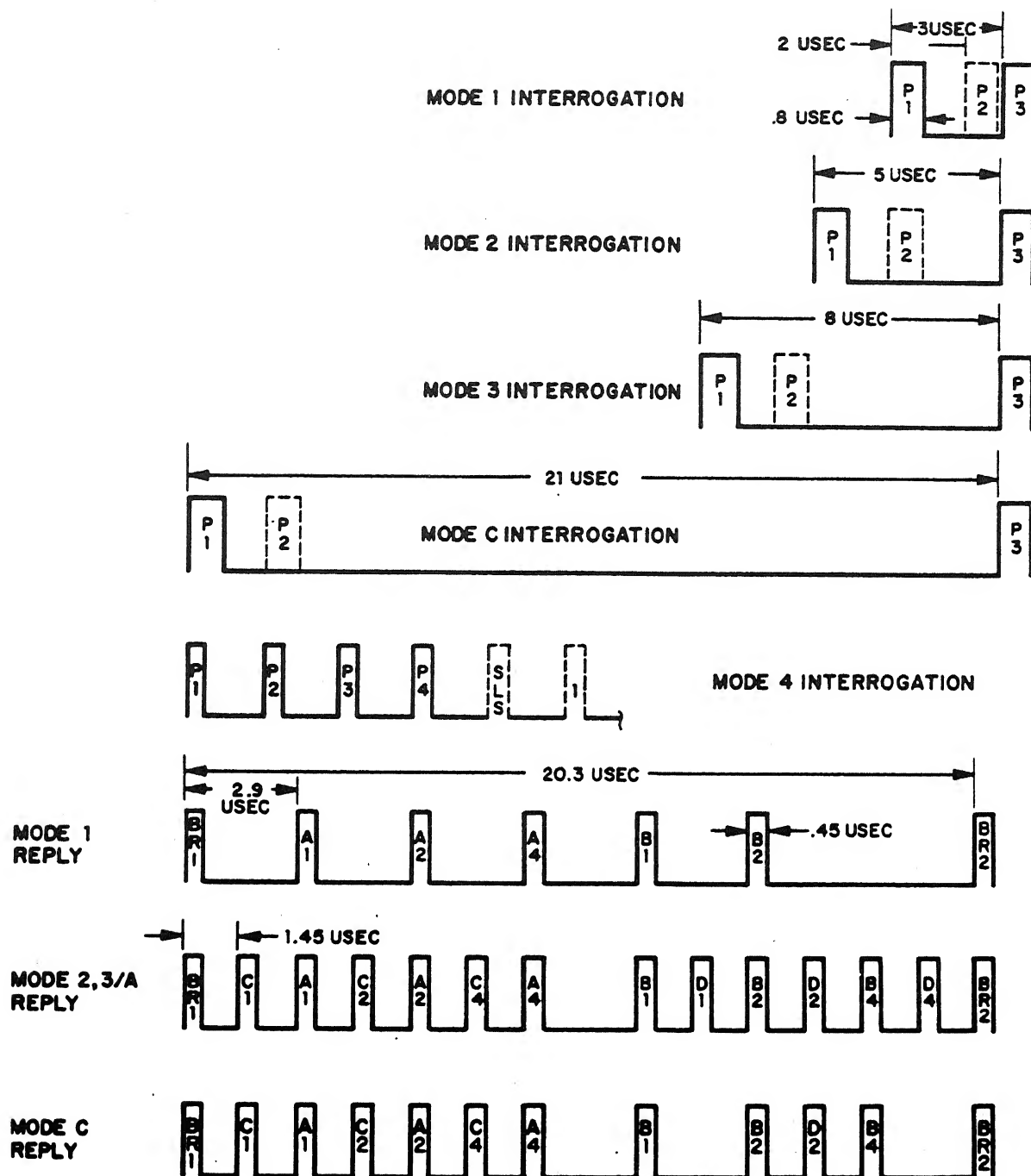
EA-6B
NAV-T-0021
T-CAP

CABIN DUMP PANEL



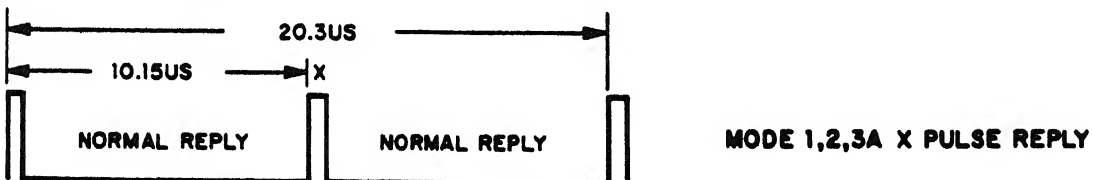
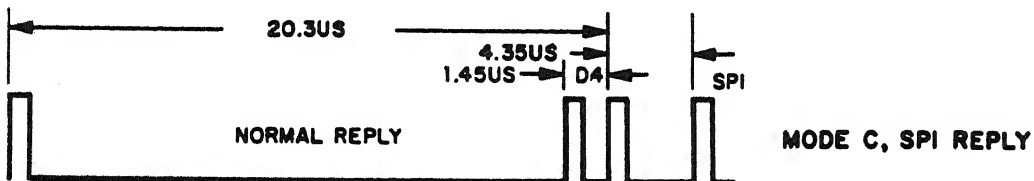
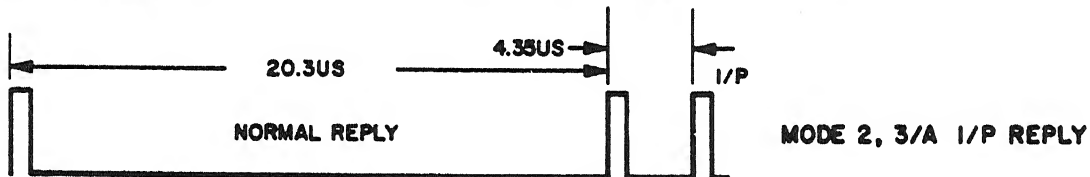
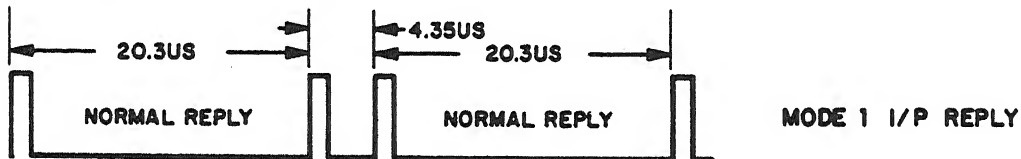
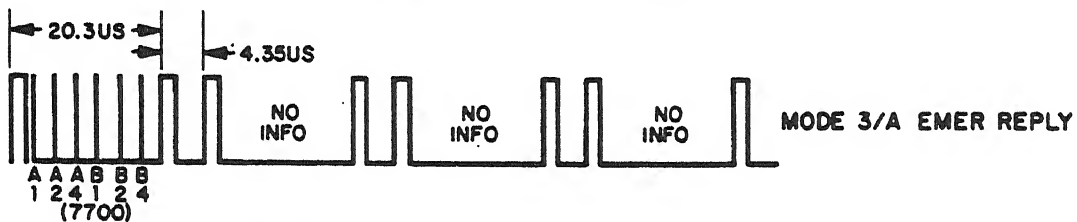
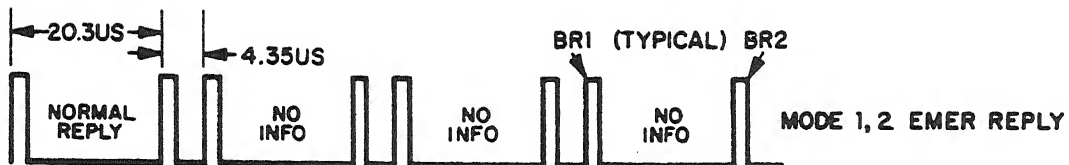
EA-6B
NAV-T-0020
I-CAP

TRANSPONDER CONTROL C-6280A(P)APX

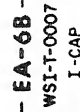


NORMAL IFF INTERROGATION AND REPLY PULSE TRAINS

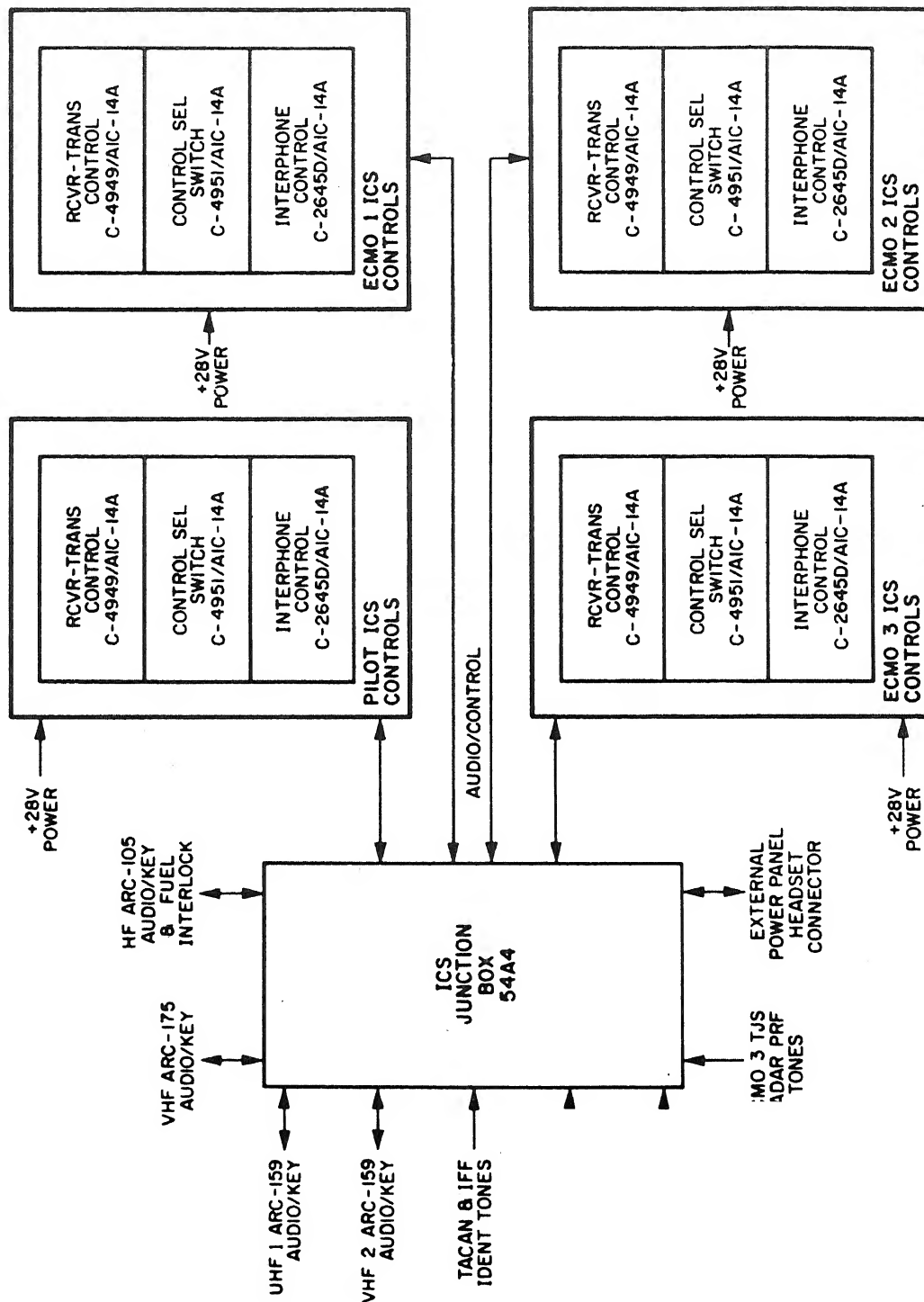
EA-68
NAV-T-0012
I-CAP



SPECIAL IFF REPLY CODES

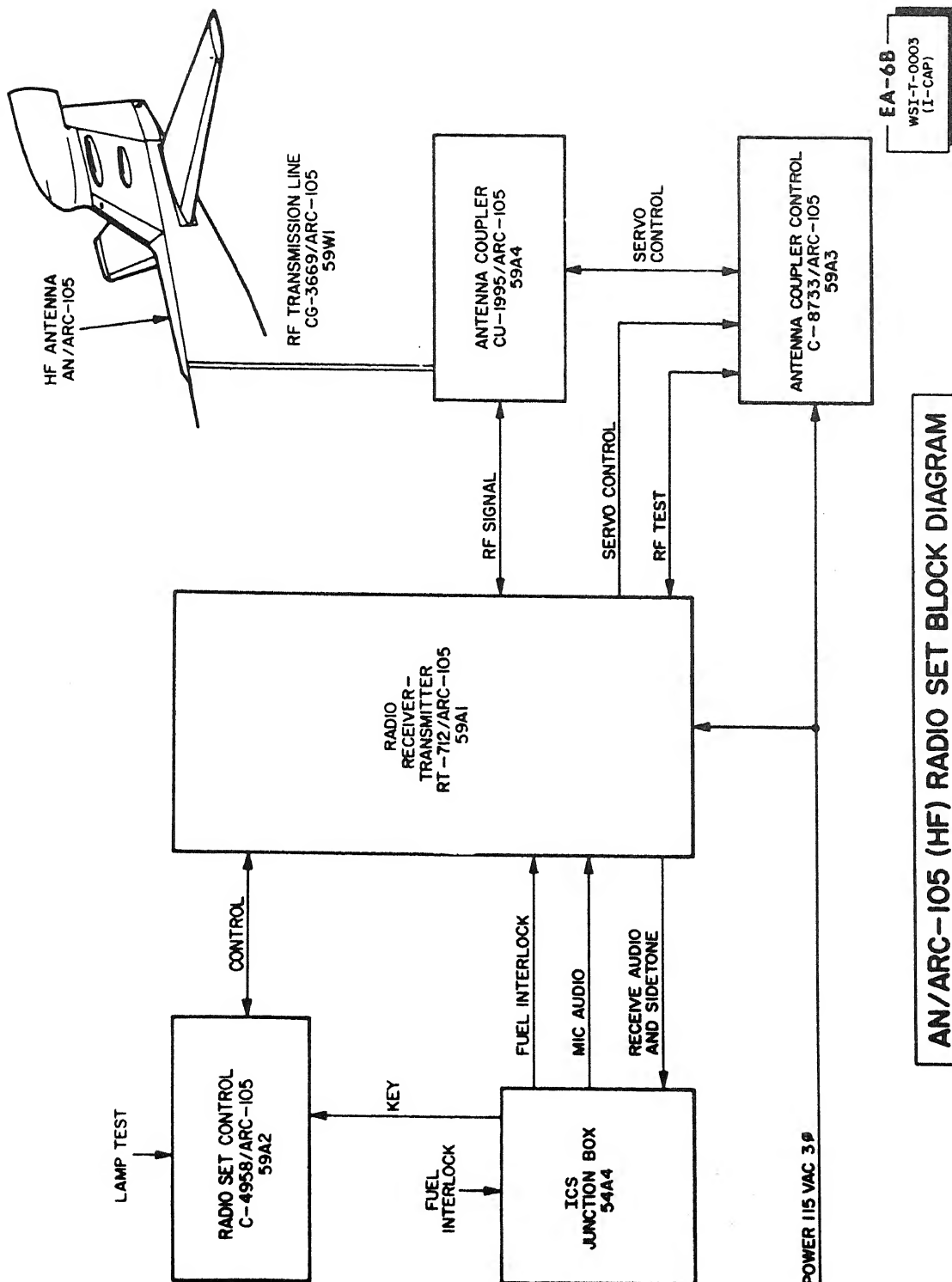


INTERCOMMUNICATION SET CONTROL LOCATIONS

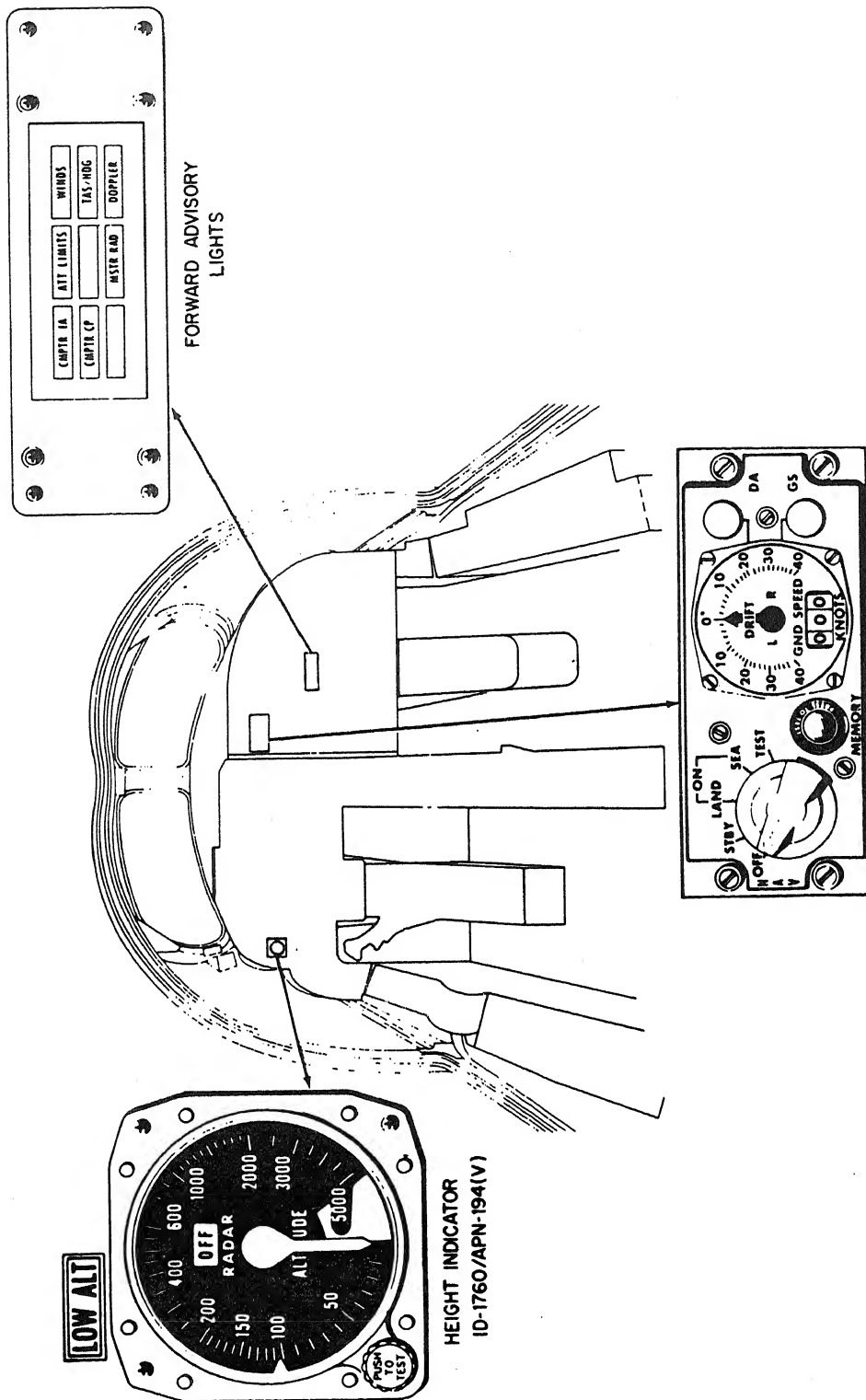


EA-6B
WSI-T-0001
I-CAP

-14A INTERCOMMUNICATION SET BLOCK DIAGRAM



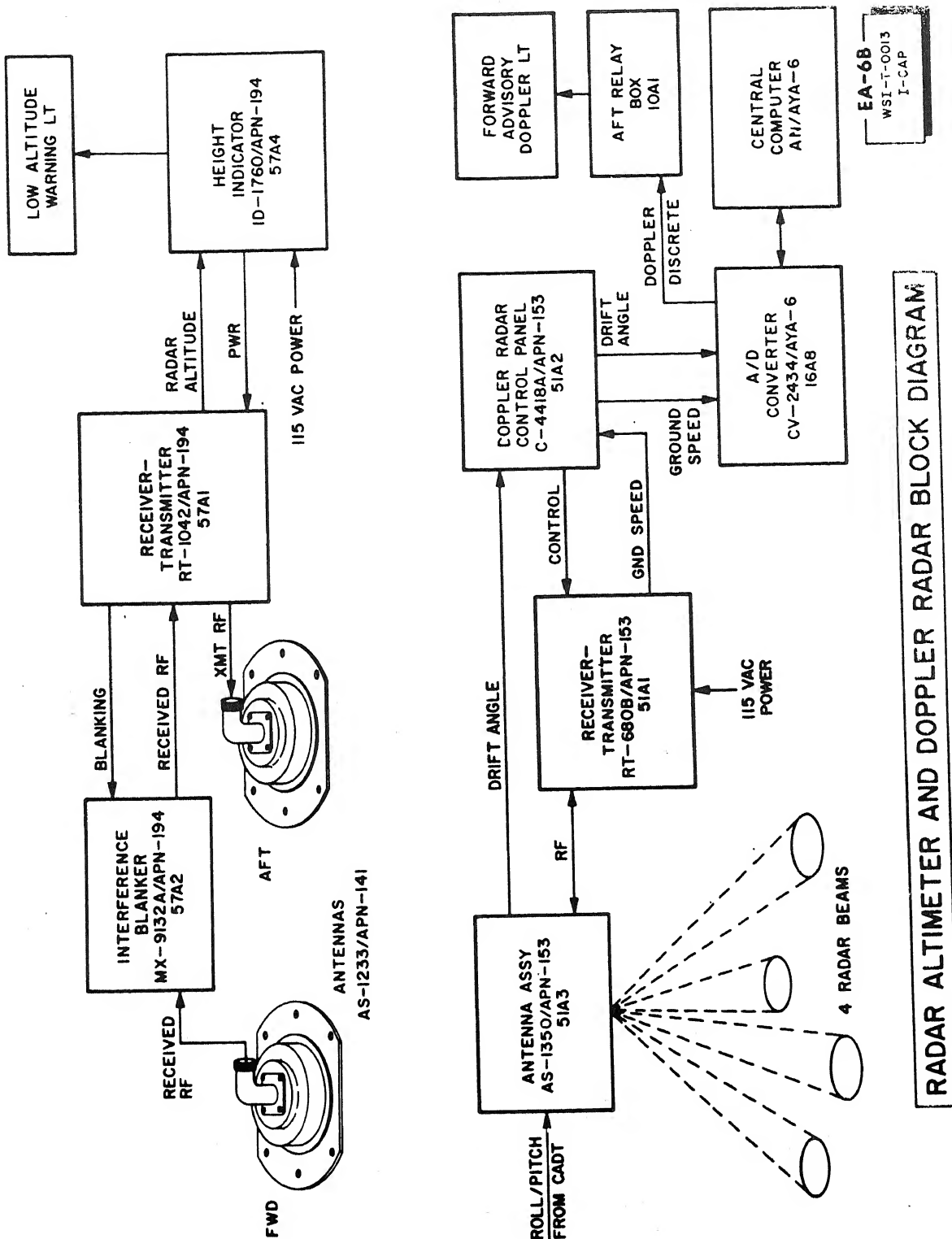
AN/ARC-105 (HF) RADIO SET BLOCK DIAGRAM



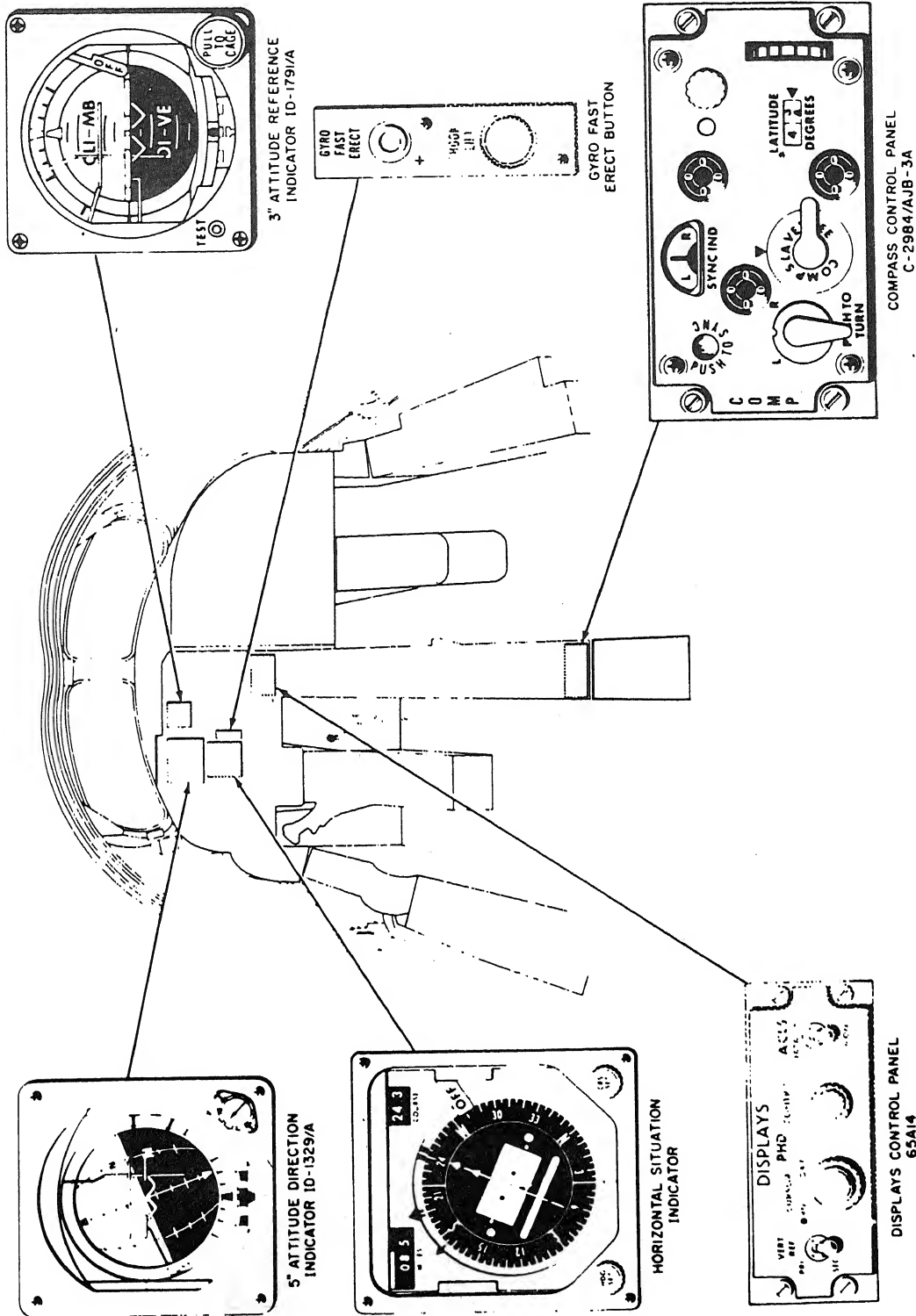
EA-6B
WSI-T-0018
I-CAP

RADAR ALTIMETER AND DOPPLER RADAR
DISPLAYS AND CONTROLS

DOPPLER RADAR CONTROL - INDICATOR
C-4418A/ APN-153(V)

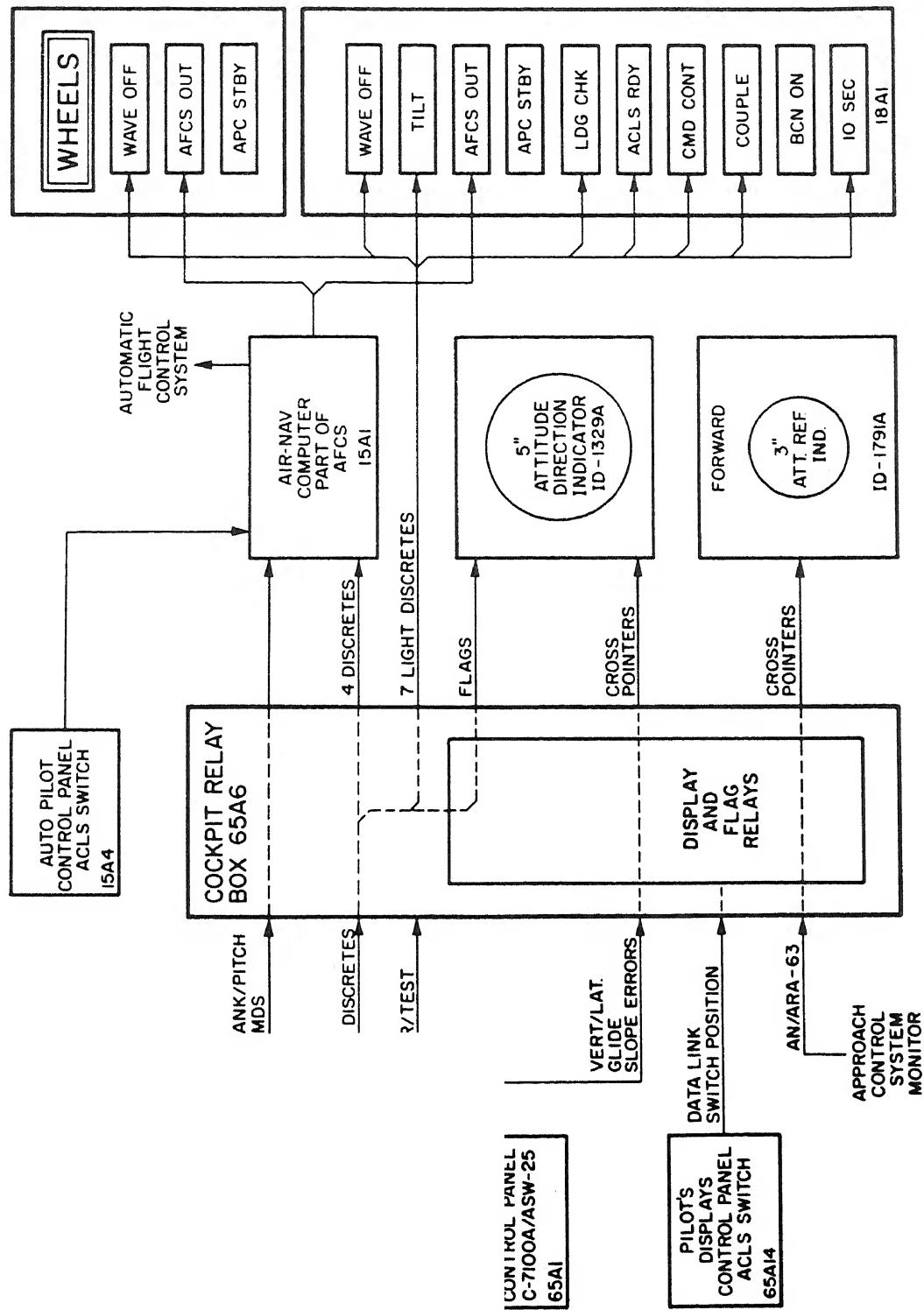


RADAR ALTIMETER AND DOPPLER RADAR BLOCK DIAGRAM



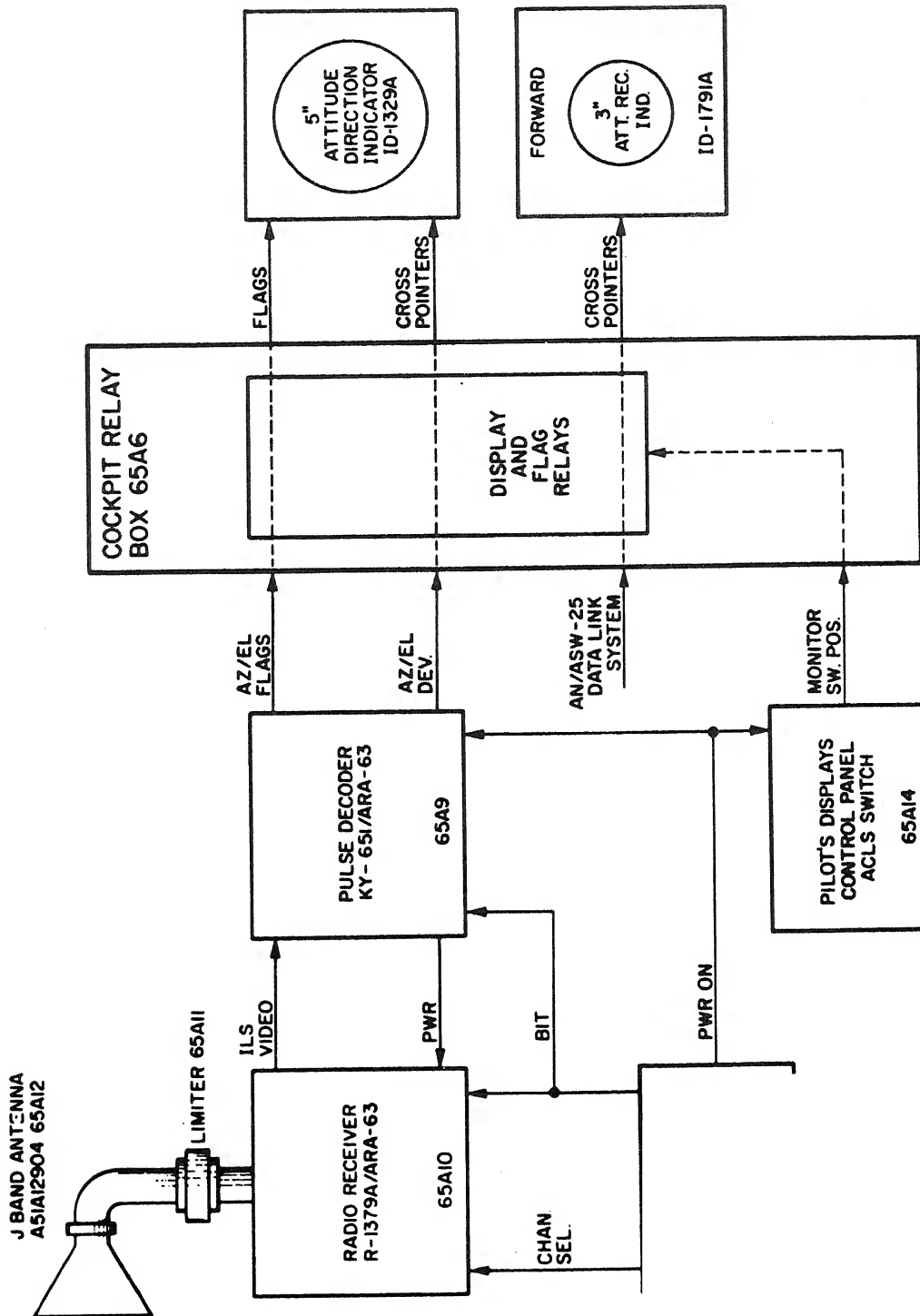
EA-6B
WSI-T-0017
I-CAP

ATTITUDE-HEADING REFERENCE SYSTEM DISPLAYS AND CONTROLS



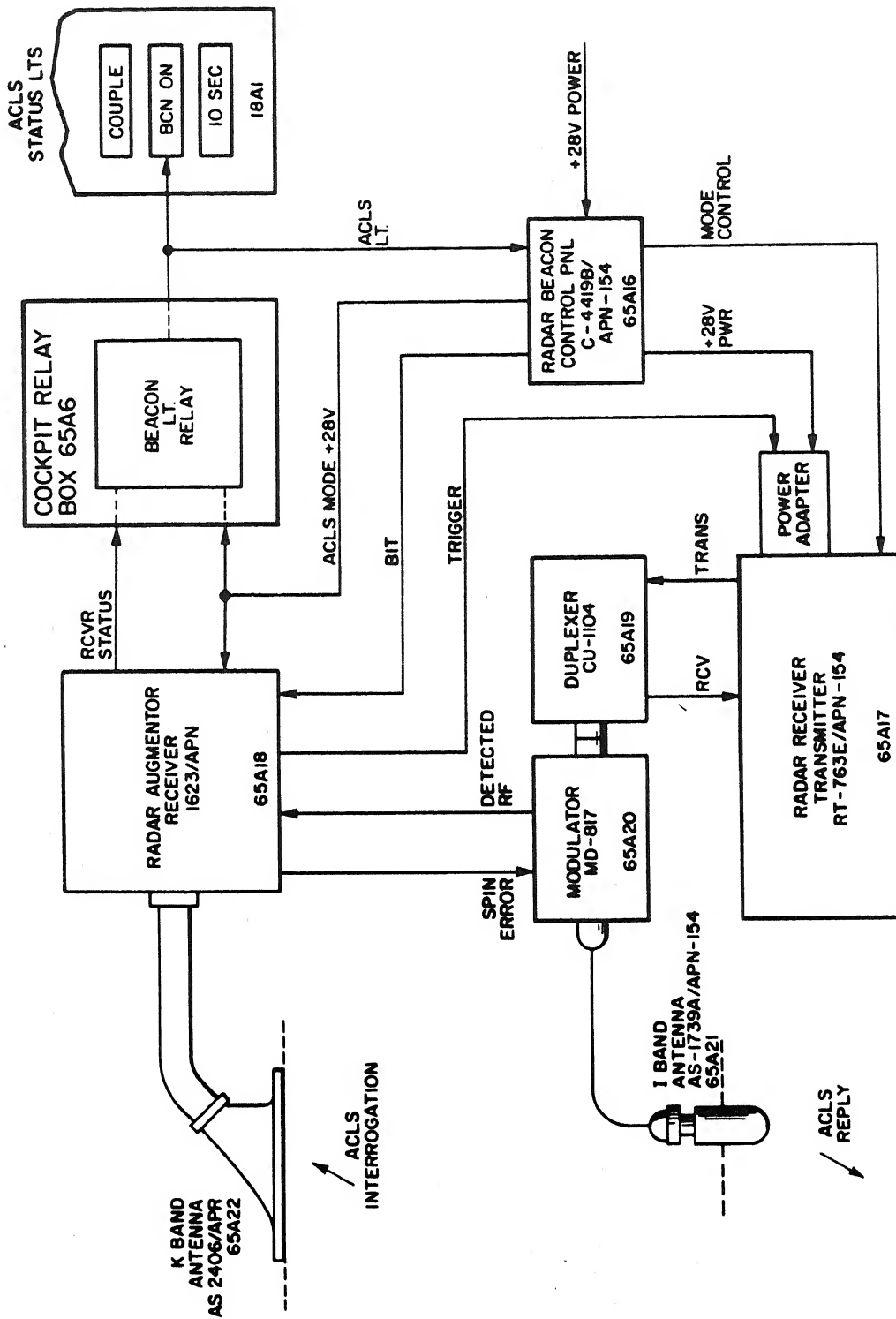
EA-6B
WSI-T-0040
1 CAP

AN/ASW-25B DATA LINK SYSTEM BLOCK DIAGRAM



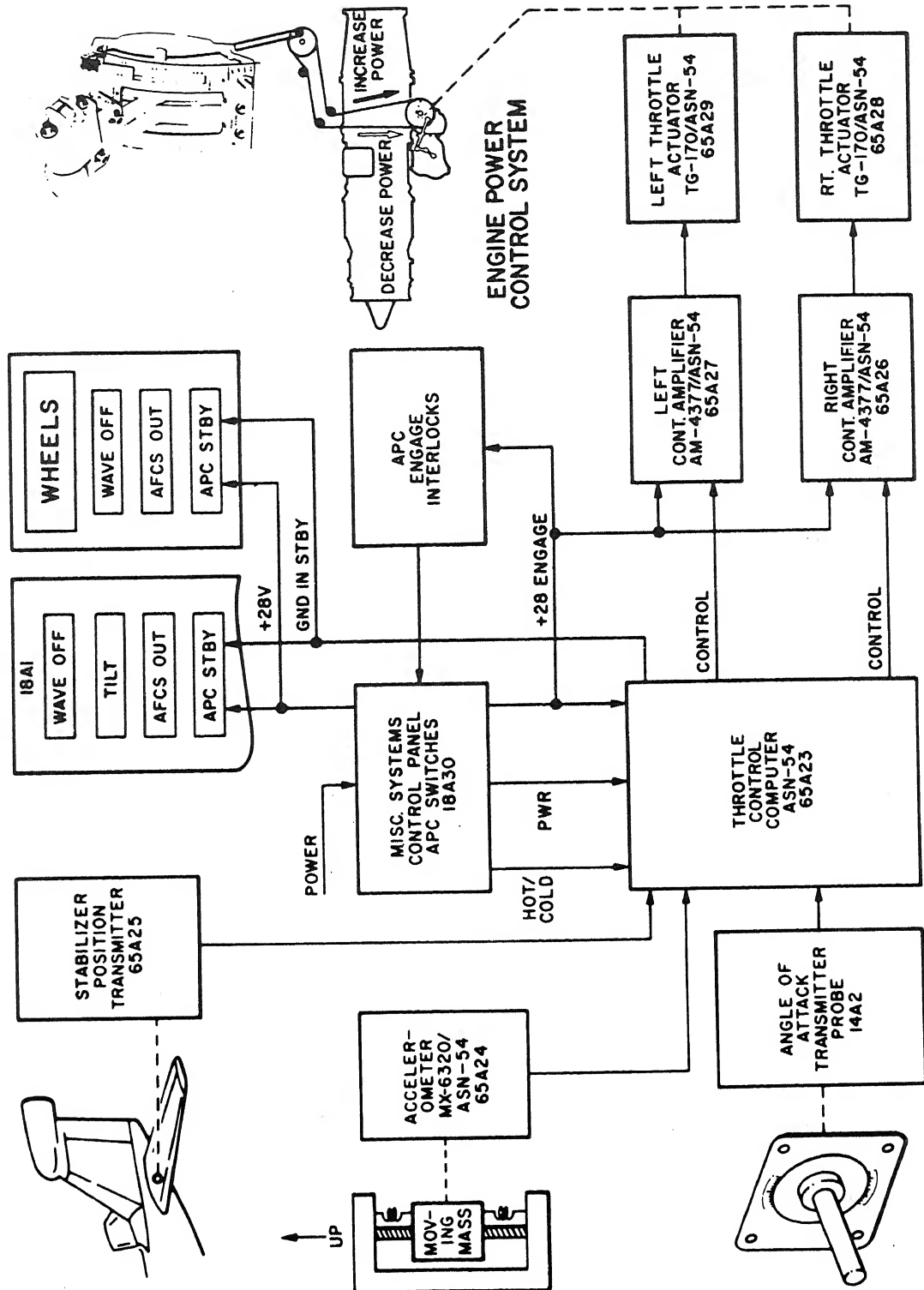
EA-6B
WS1-T-0041
I-CAP

N/ARA-63 APPROACH CONTROL SYSTEM BLOCK DIAGRAM



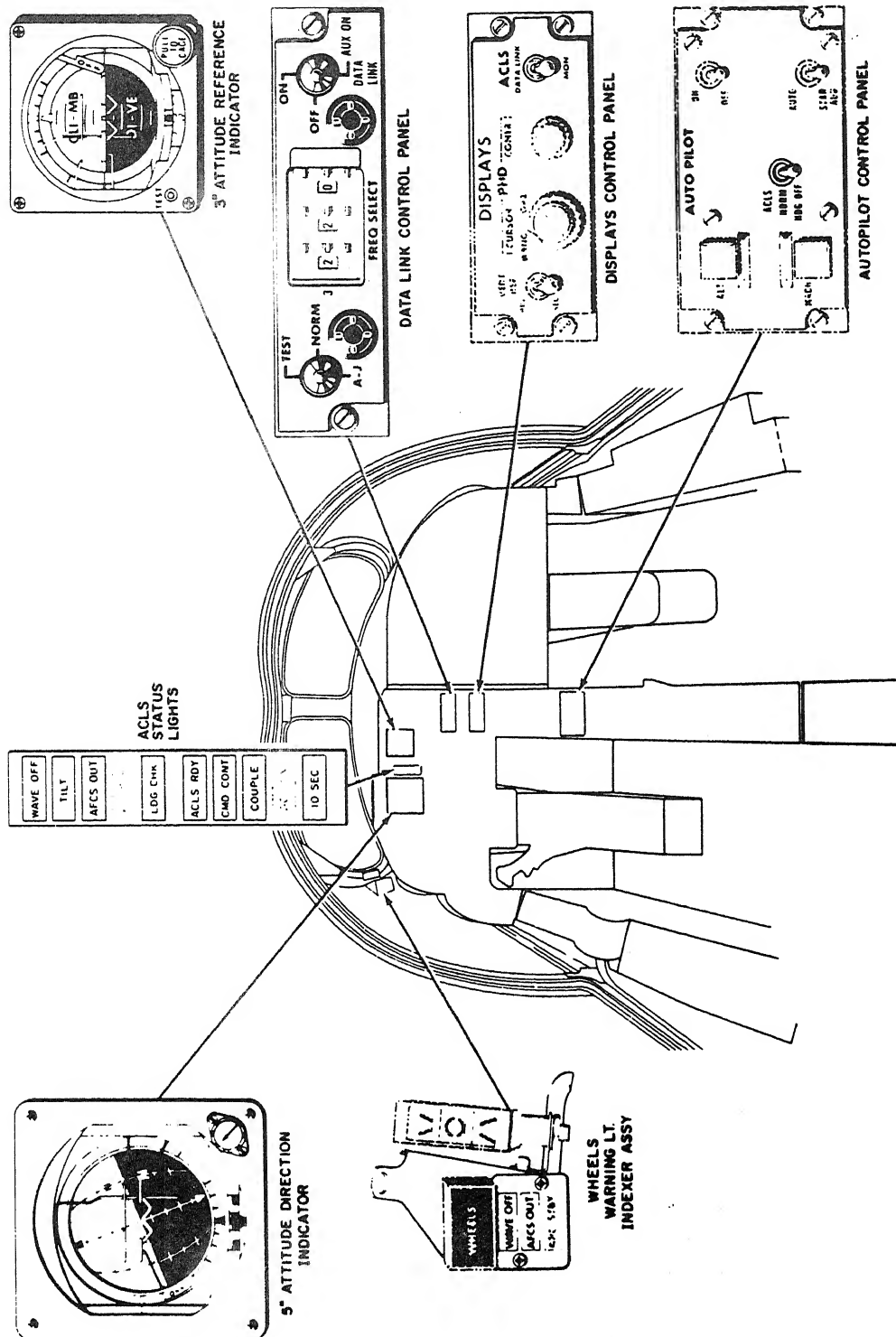
EA-6B
WSI-T-0042
I-CAP

AN/APN-154B RADAR BEACON SYSTEM BLOCK DIAGRAM



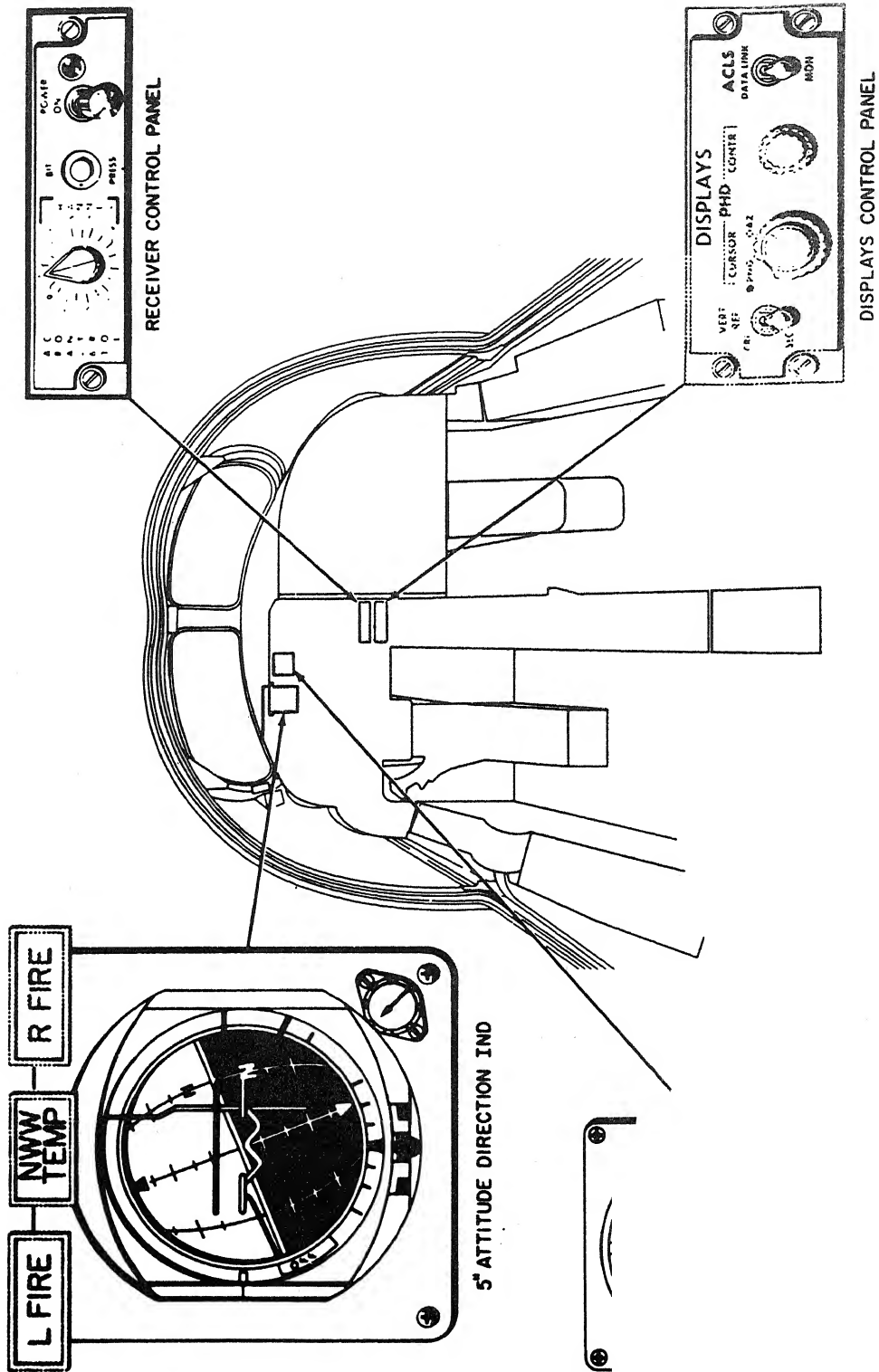
EA-6B
WSI-T-0043
I-CAP

AN/ASN-54 APPROACH POWER COMPENSATOR BLOCK DIAGRAM



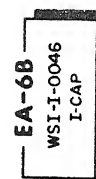
EA-6B
WSI-T-0044
T-CAP

**AN/ASW-25B DATA LINK SYSTEM
CONTROLS AND DISPLAYS**

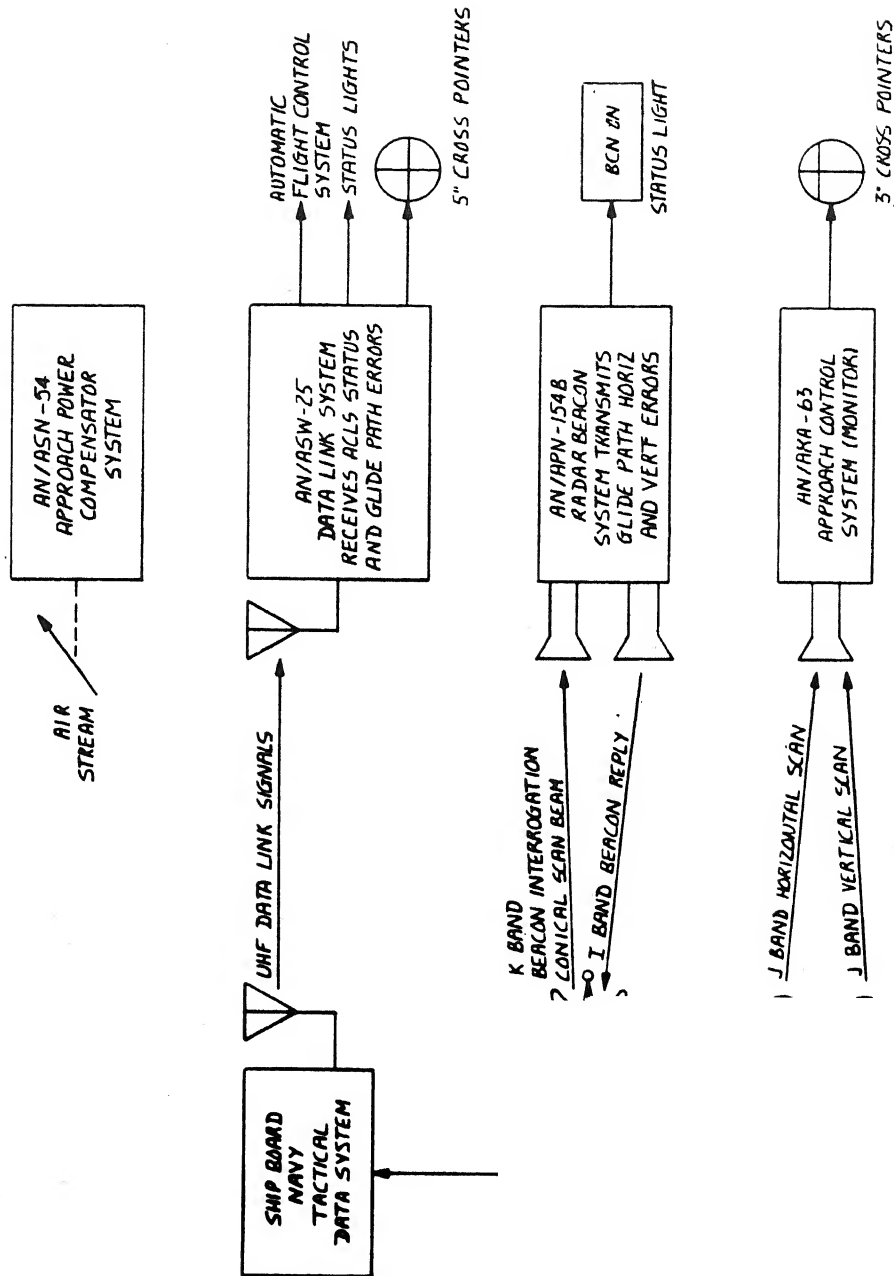


EA-6B
WSI-T-0045
I-CAP

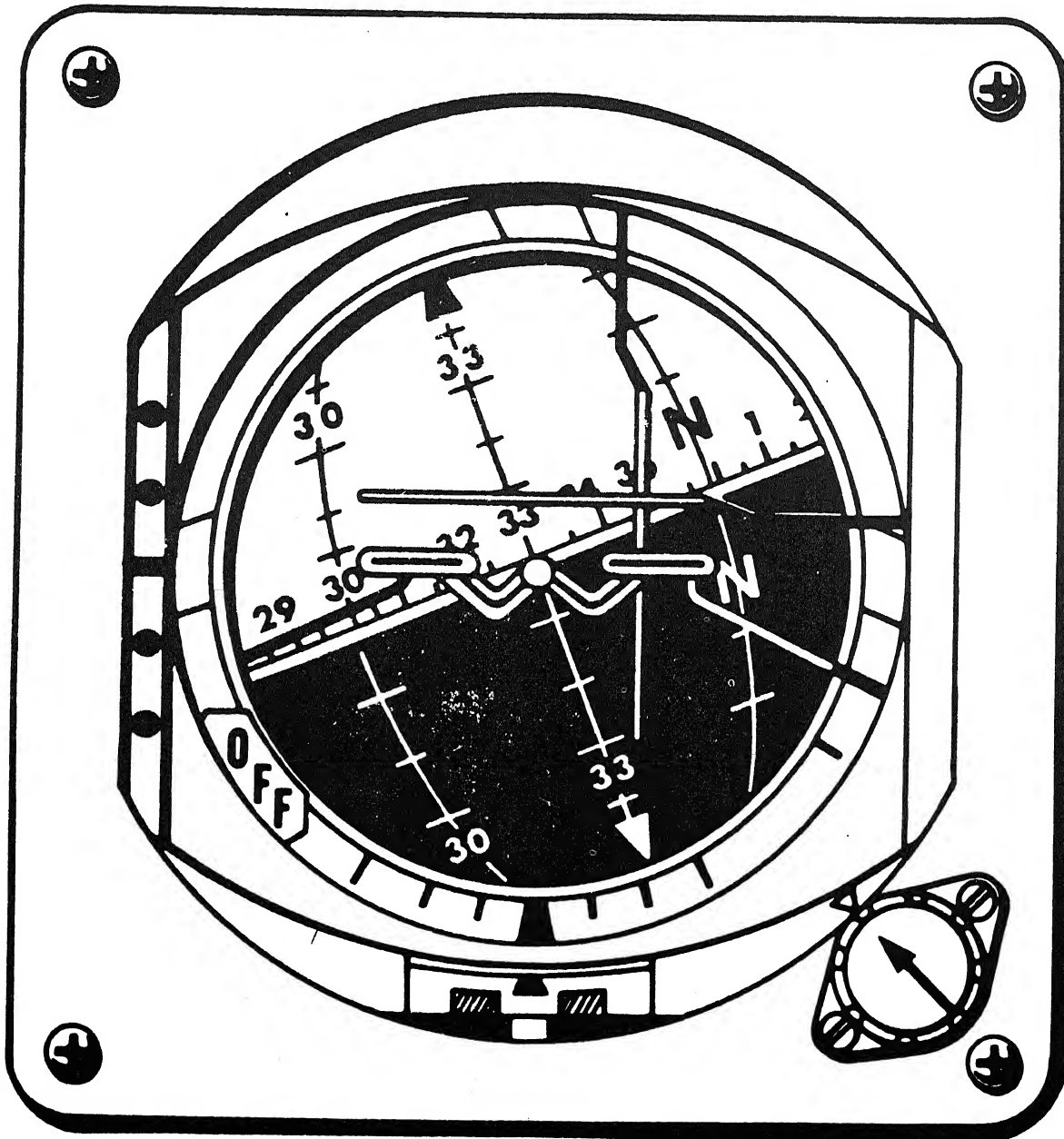
APPROACH CONTROL SYSTEM CONTROL AND DISPLAYS



AN/APN-154B RADAR BEACON SYSTEM CONTROL AND DISPLAY

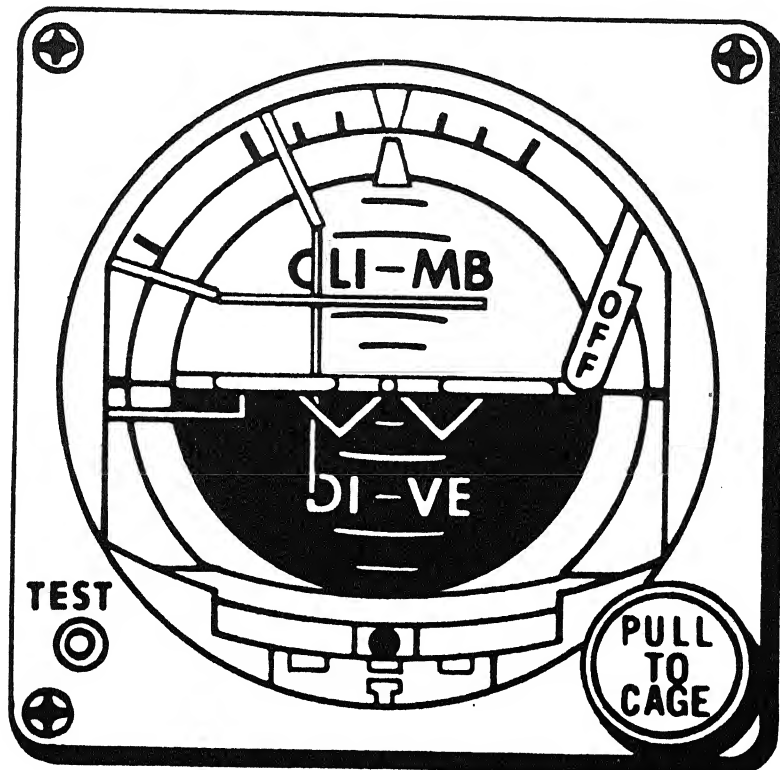


SIMPLIFIED ACLS BLOCK DIAGRAM



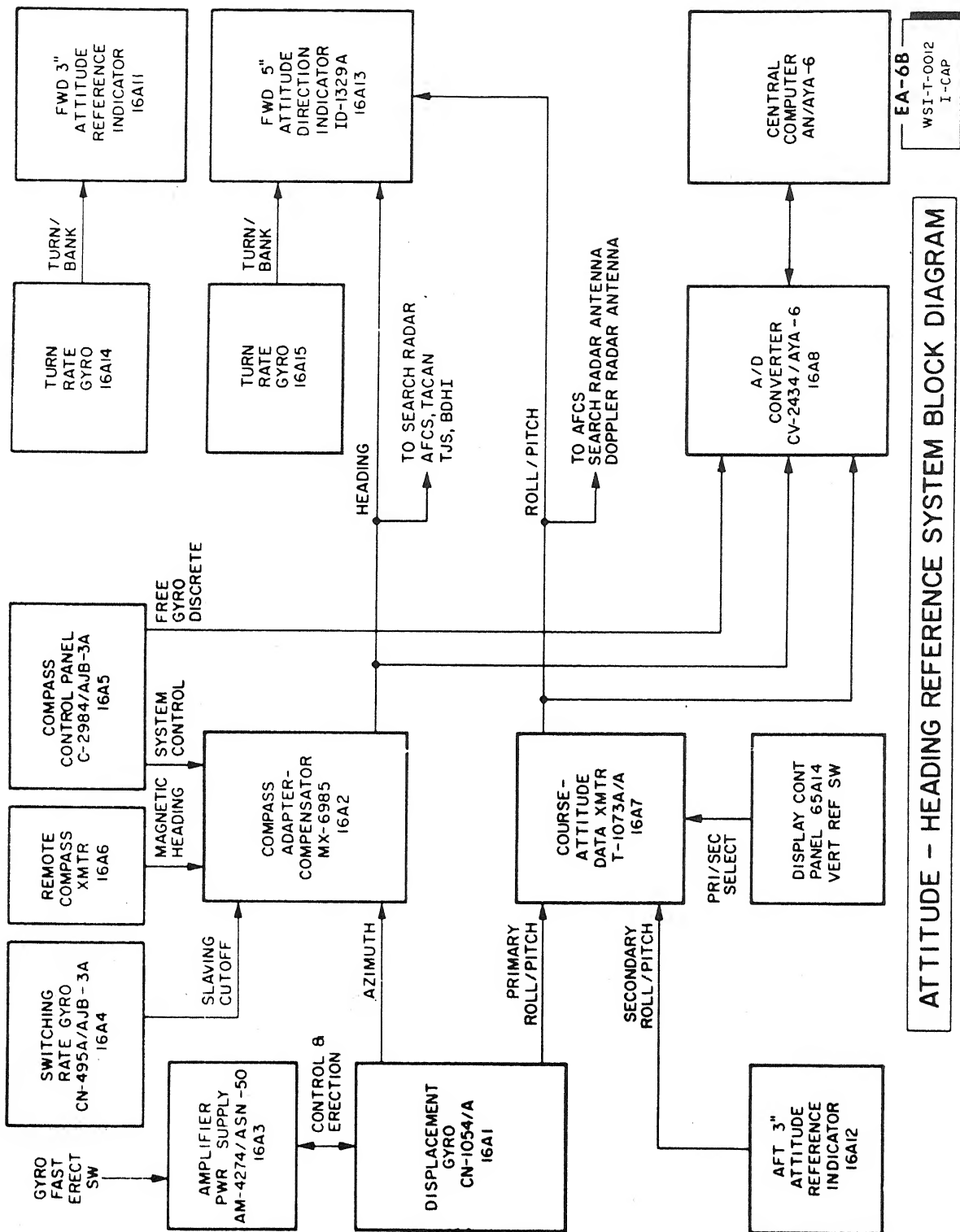
5" ATTITUDE DIRECTOR INDICATOR ID-1329A

EA-6B
NAV-T-0017



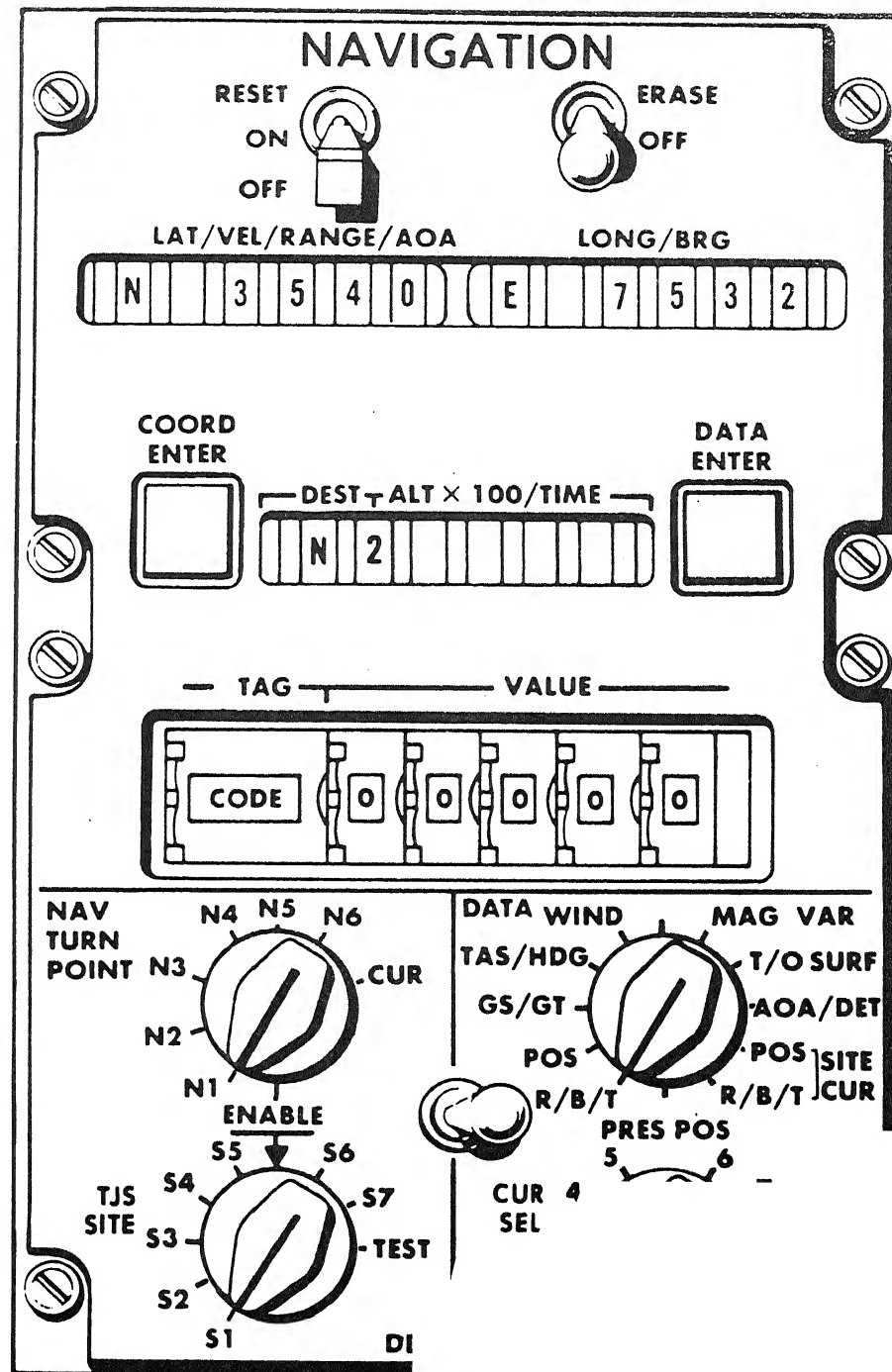
3" ATTITUDE DIRECTOR INDICATOR ID-1791A

EA-68
NAV-T-0018

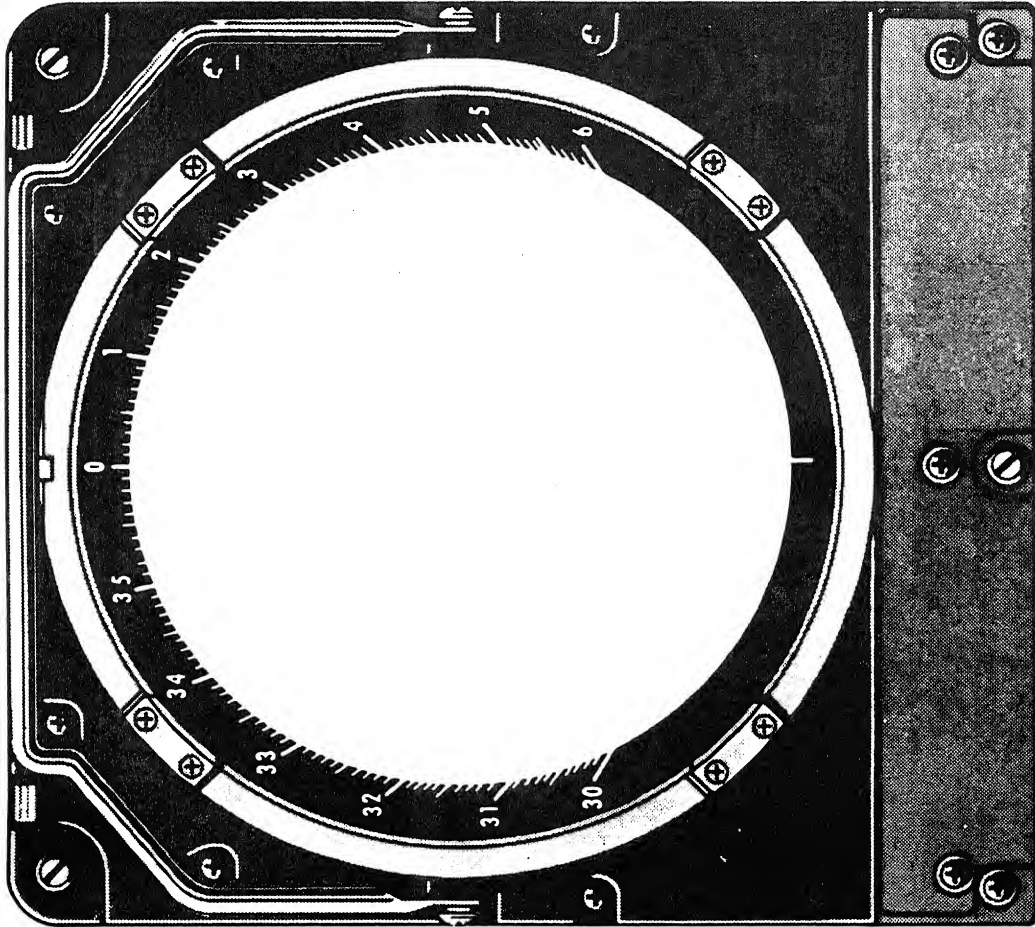


EA-6B
WSI-T-0012
I-CAP

ATTITUDE - HEADING REFERENCE SYSTEM BLOCK DIAGRAM

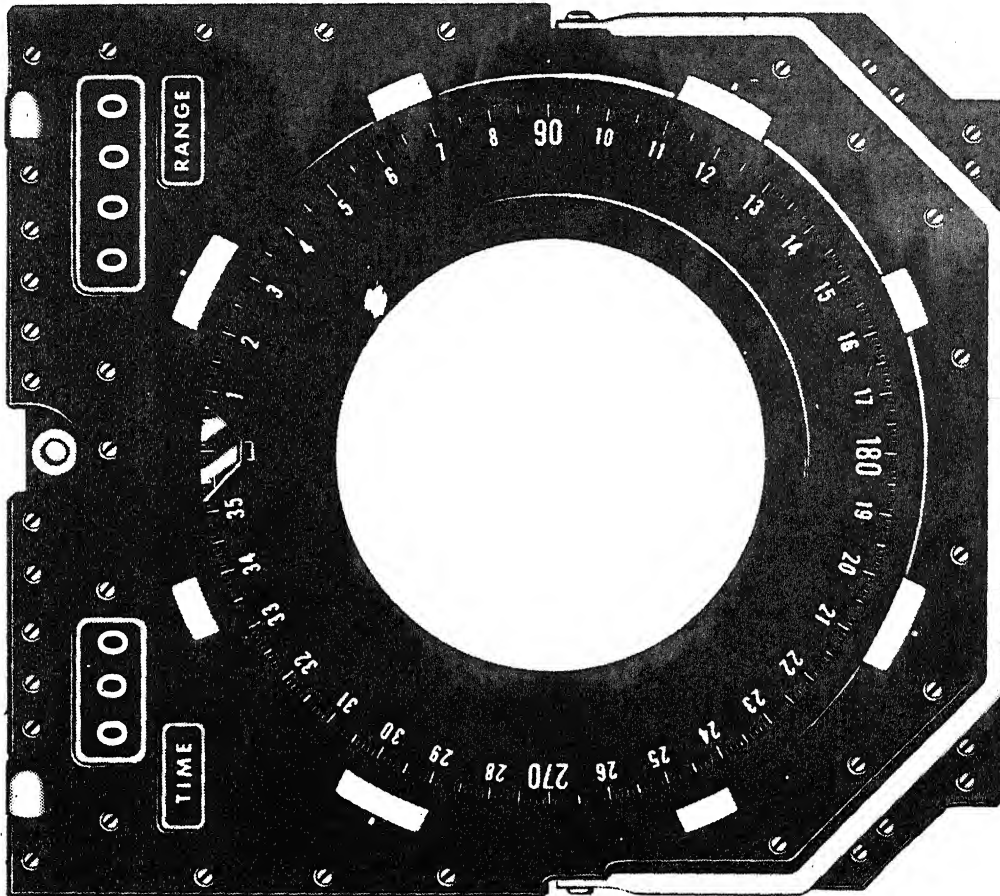


COMPUTER CONTROL INDI



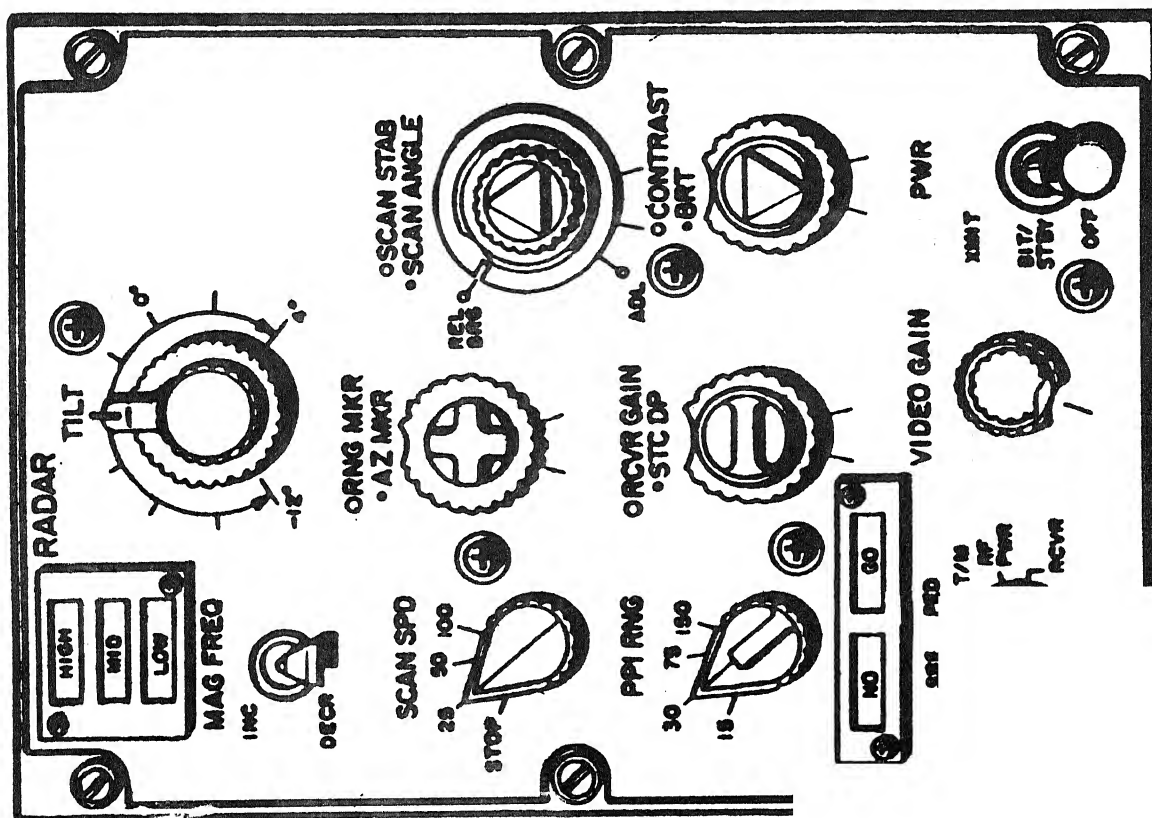
DIRECT VIEW RADAR INDICATOR (DVRI)

EA-6B
NAV T-0036

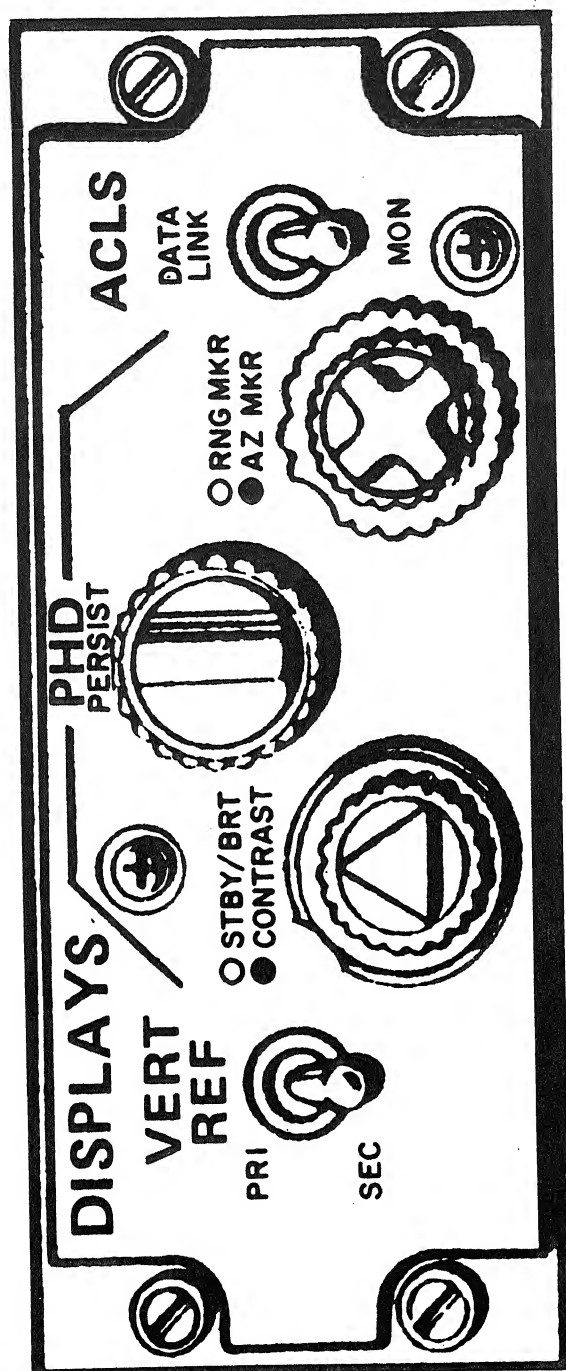


EA-6B
NAV T-0037

PILOT'S HORIZONTAL DISPLAY (PHD)

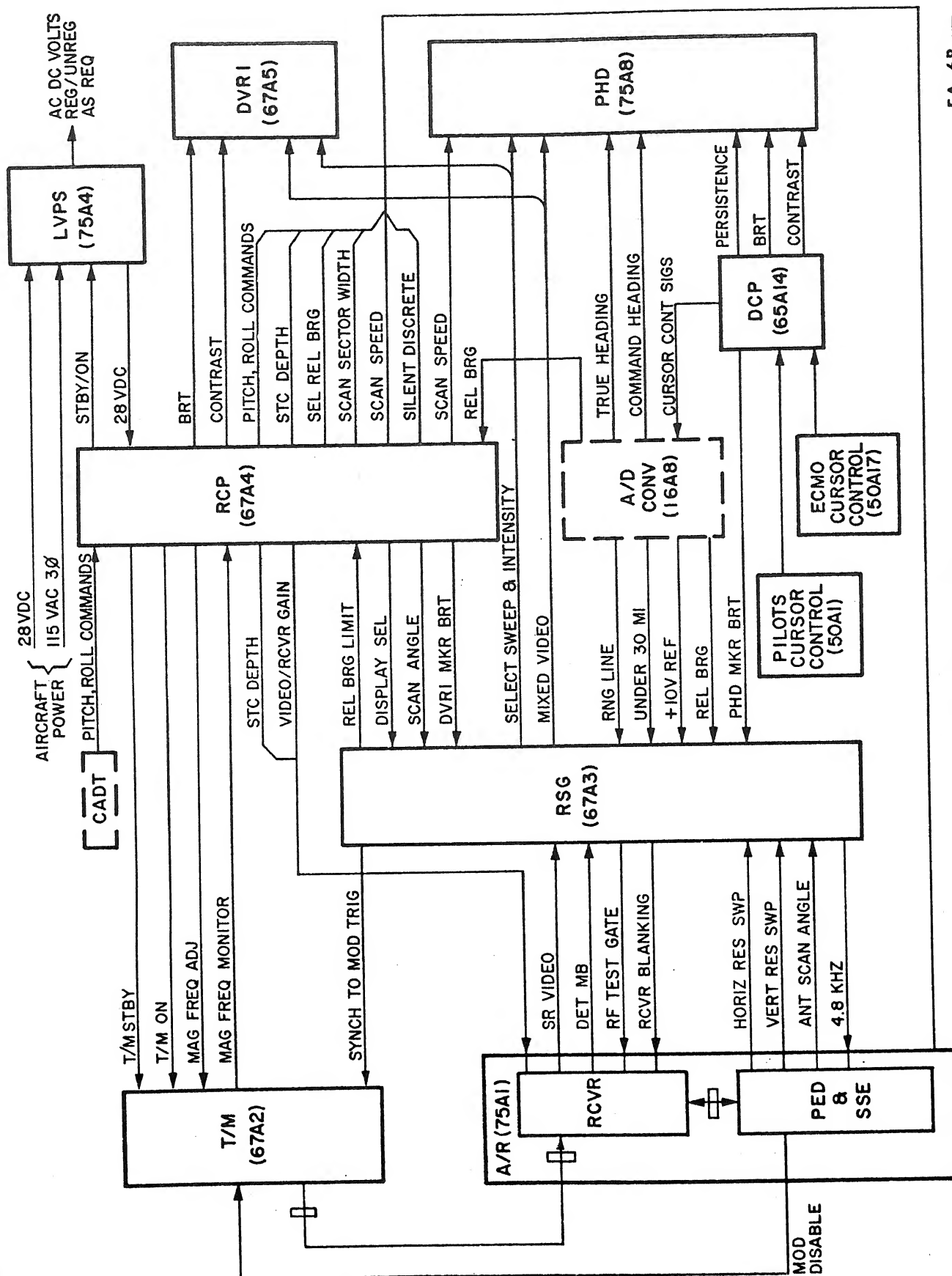


RADAR CONTROL PANEL



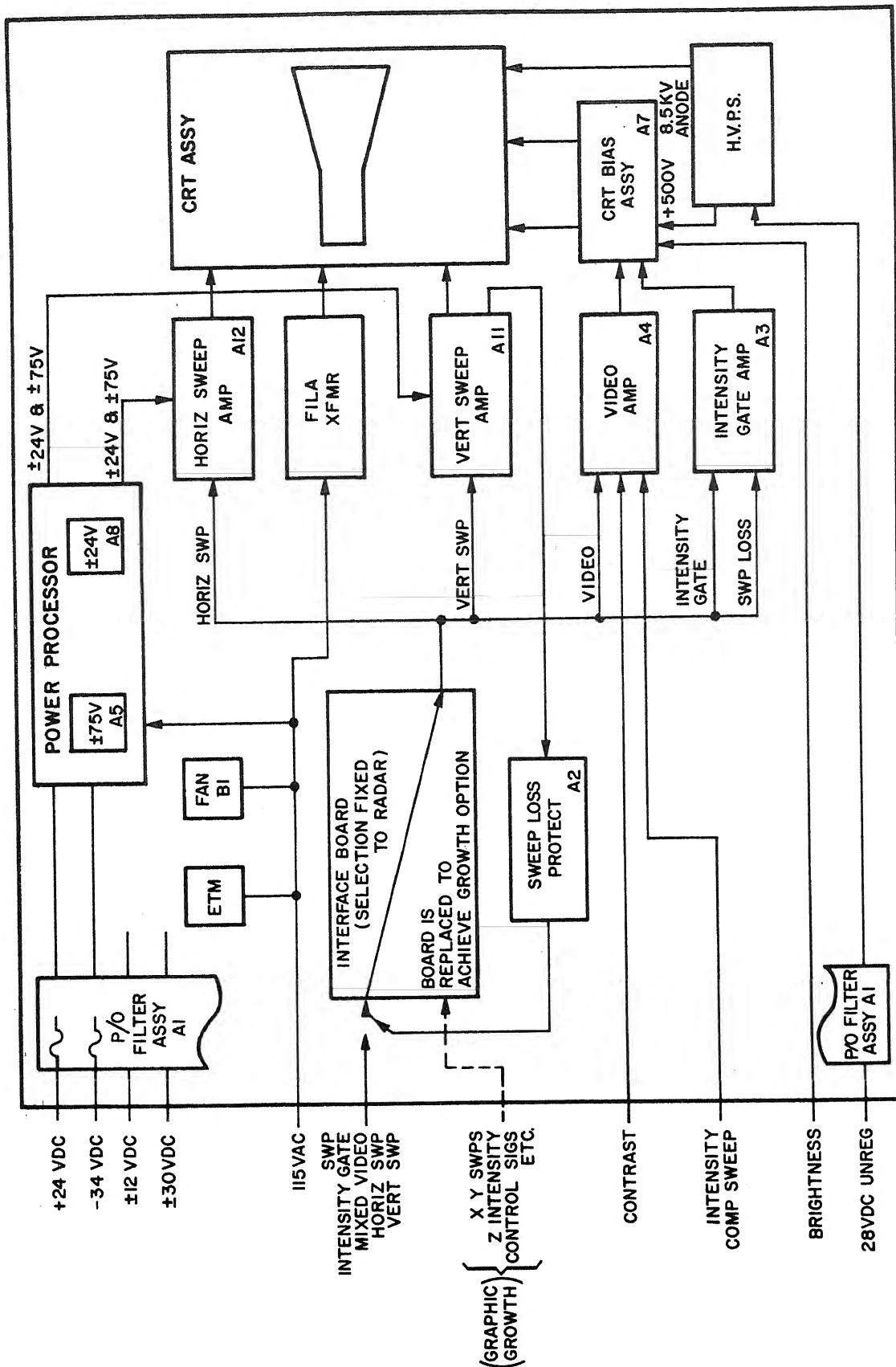
DISPLAYS CONTROL PANEL

EA-6B
NAV T-0039



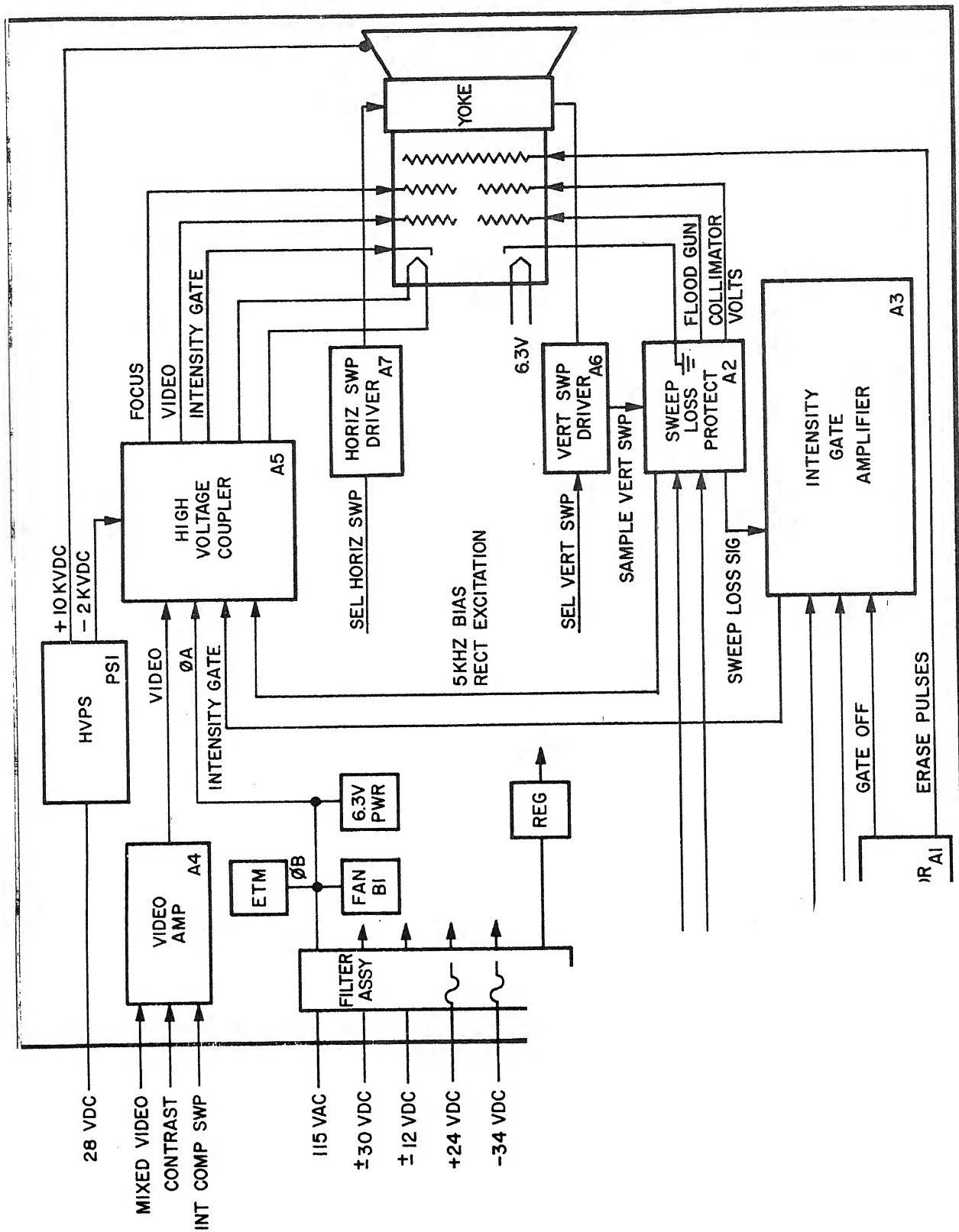
EA-6B
NAV-T-0027
I-CAP

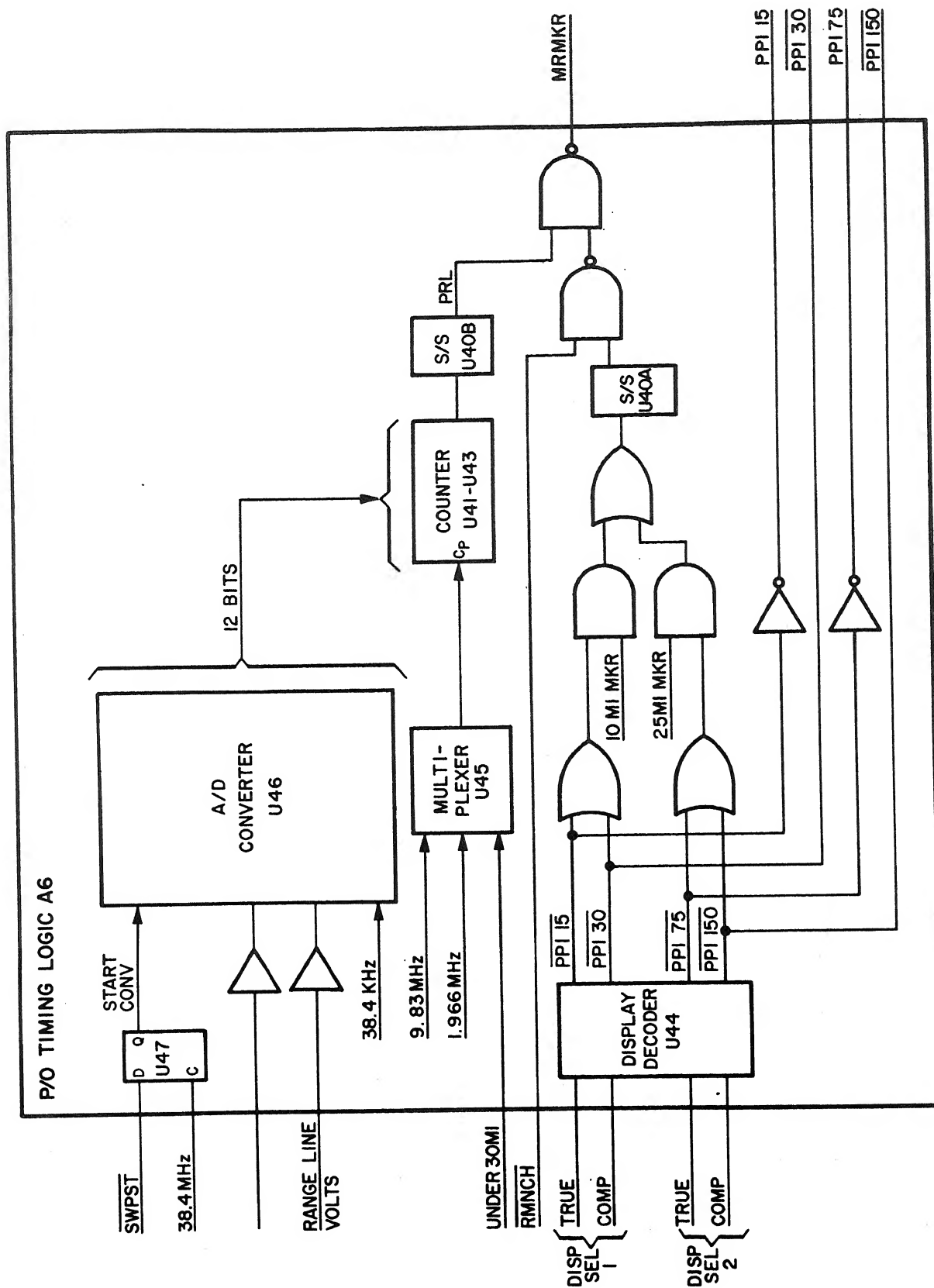
AN/APS-130 RADAR SYSTEM BLOCK DIAGRAM



EA-6B
NAV-T-0028
I-CAP

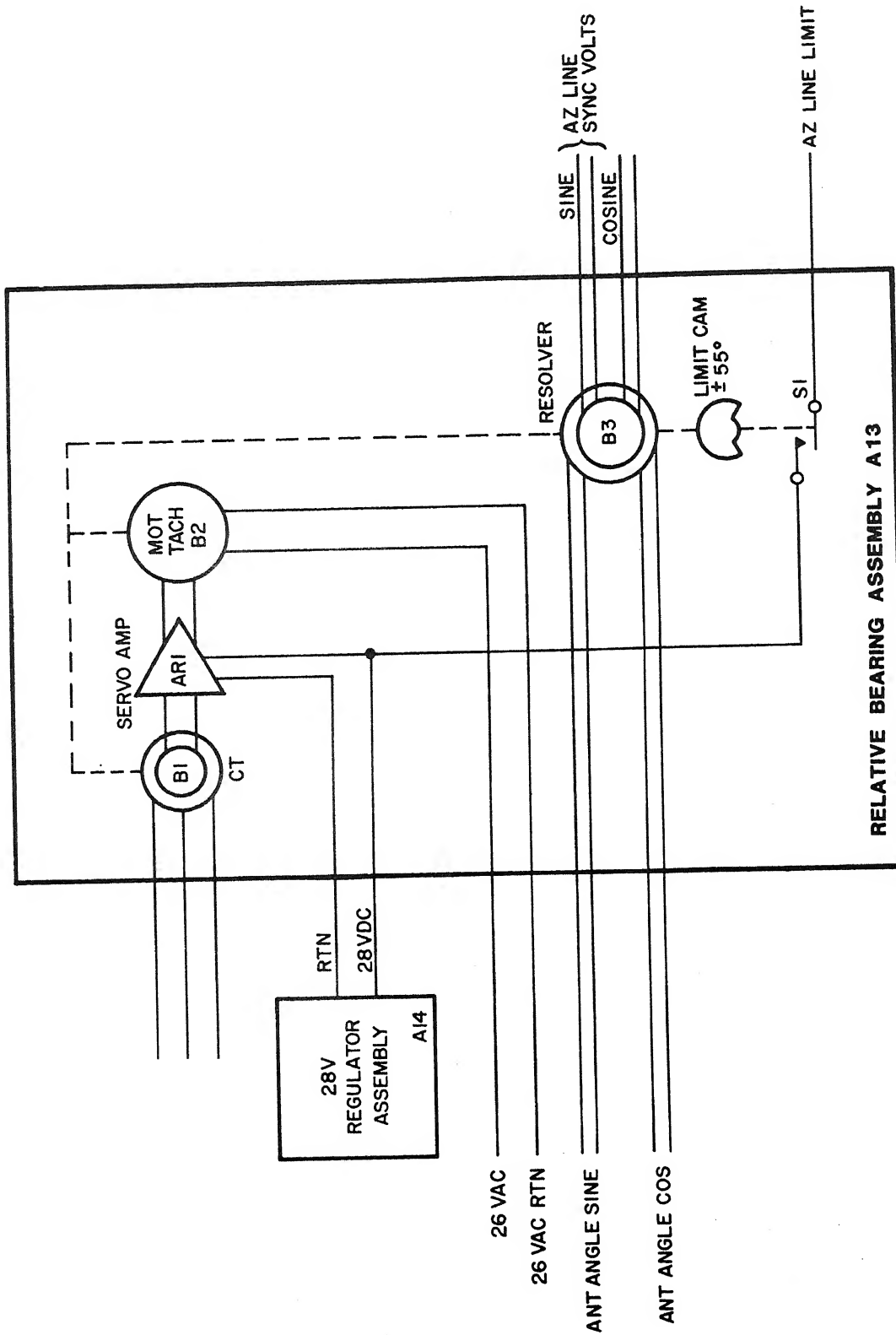
DVRI BLOCK DIAGRAM

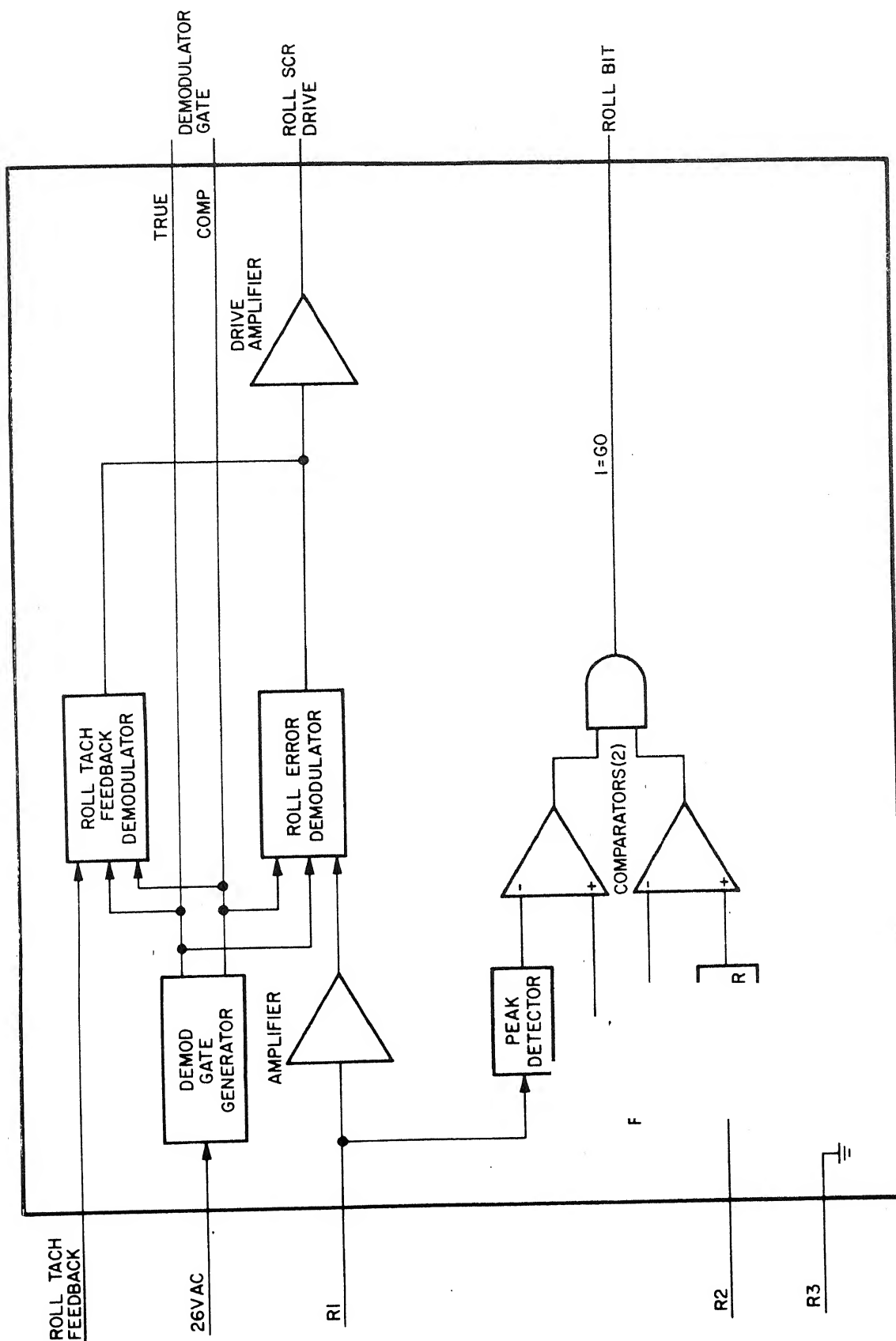




EA-6B
NAV-T-0034
I-CAP

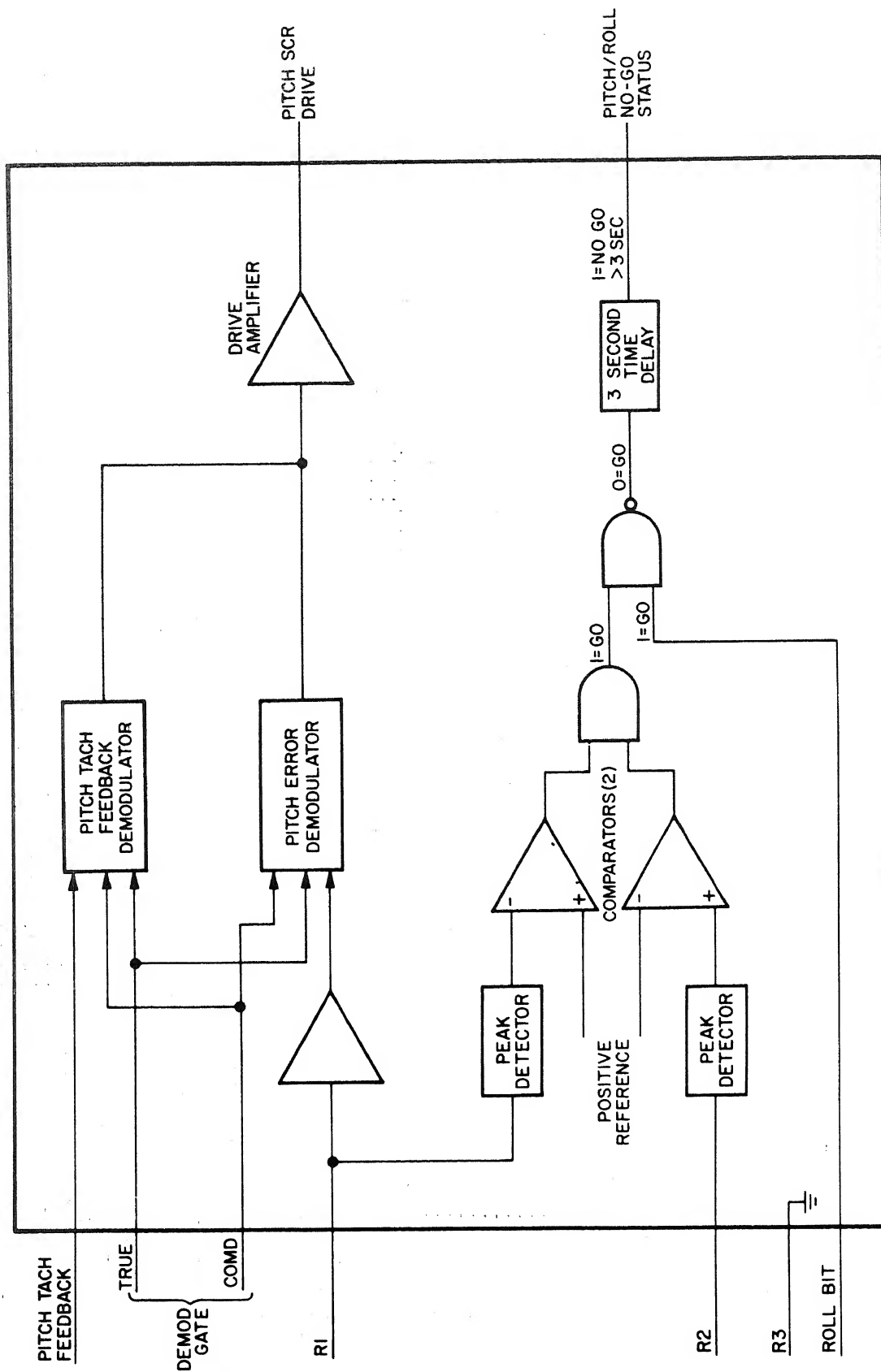
MIXED RANGE MARKERS GENERATOR





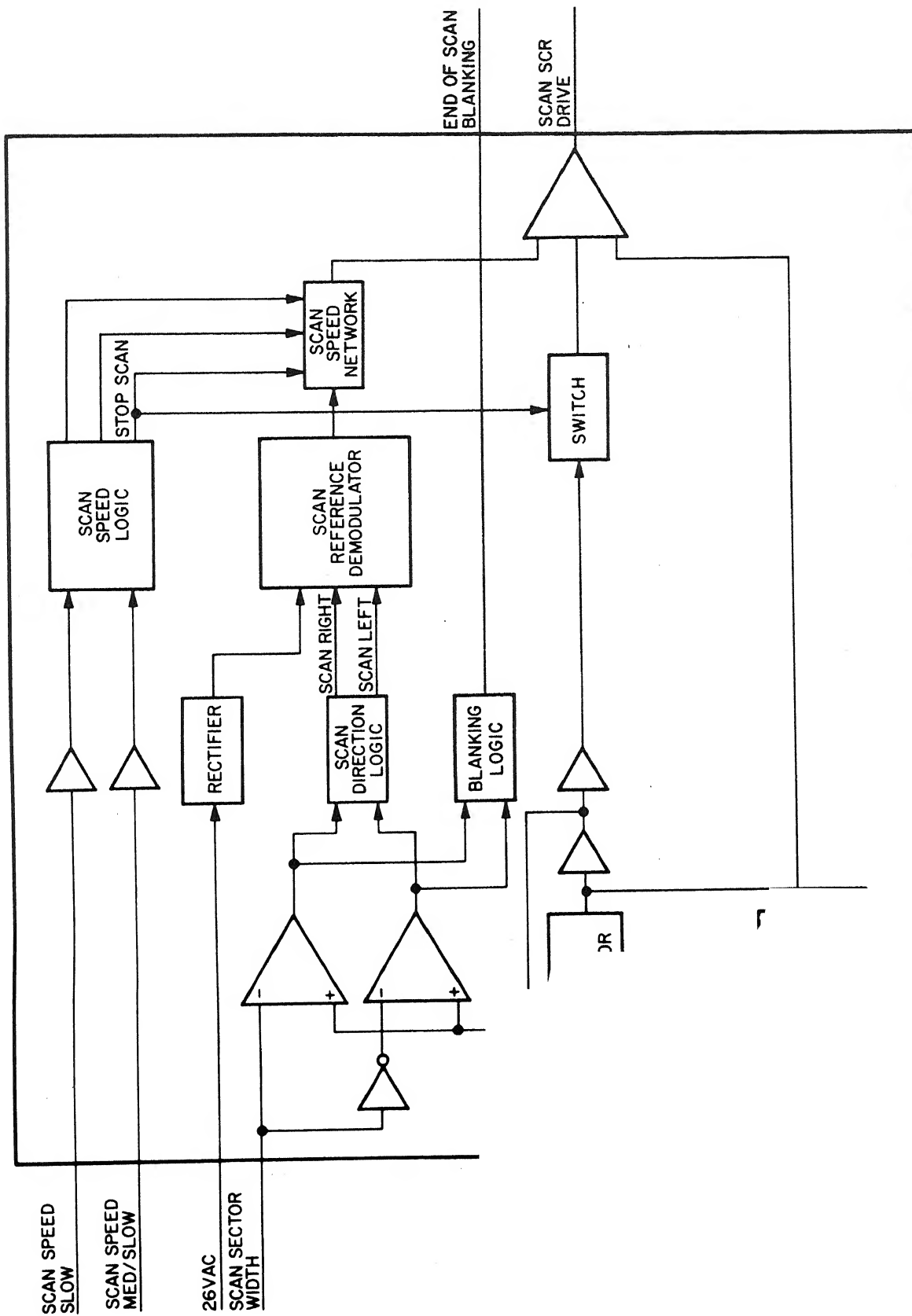
EA-6B
NAV-T-0030
1-CAF

- ELECTRONICS AMPLIFIER



PITCH ELECTRONICS AMPLIFIER

EA-6B
NAV-T-0031
I-CAP



EA-6B
NAV-T-0032
I-CAP

SCAN ELECTRONICS AMPLIFIER